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# 1982

## Census of Construction Industries

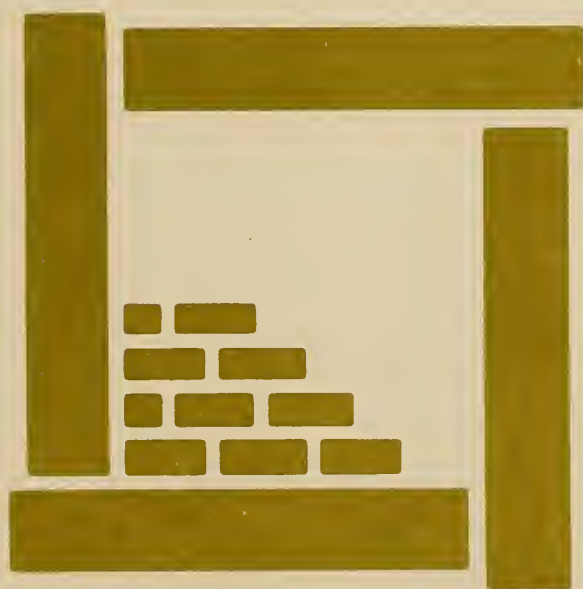
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CC82-A-9

GEOGRAPHIC AREA SERIES

### Pacific States

Alaska, California, Hawaii, Oregon,  
Washington



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The publications  
from the 1982 Economic and  
Agriculture Censuses are dedicated  
to the memory of Shirley Kallek,  
Associate Director for Economic Fields.  
During her career at the Bureau of the  
Census (1955 to 1983), she continually  
directed efforts to improve  
the timeliness and accuracy of  
economic statistics.

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# **1982**

# **Census of Construction Industries**

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CC82-A-9

GEOGRAPHIC AREA SERIES

## **Pacific States**

Alaska, California, Hawaii, Oregon,  
Washington

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Issued April 1985



**U.S. Department of Commerce**

**Malcolm Baldrige**, Secretary

**Clarence J. Brown**, Deputy Secretary

**Sidney Jones**, Under Secretary for  
Economic Affairs

**BUREAU OF THE CENSUS**

**John G. Keane**,  
Director

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Leonora M. Gross, Chief

**ACKNOWLEDGMENTS**—Many persons participated in the various activities of the 1982 Census of Construction Industries. Primary direction of the program was performed by Shirley Kallek, Associate Director for Economic Fields (until May 1983), Charles A. Waite, her successor, and Michael G. Farrell, Assistant Director for Economic and Agriculture Censuses (until August 1984), and John H. Berry, his successor.

This report was prepared in the Construction Statistics Division under the general direction of Leonora M. Gross, Chief. Alan I. Blum, Assistant Division Chief for Industry Surveys, was responsible for the overall management of the census of construction industries. He guided the planning and implementation of the project and coordinated activities with other divisions.

A. William Visnansky supervised the preparation of this report. Barbara J. Hadden, Edward R. Glover, Otto G. Ricci, Marie Rustin-Sanhueza, and Shirley M. Baker made important contributions in such areas as developing specifications, procedures, and resolving problems.

The computer processing system was developed and coordinated under the direction of Barbara M. Walter. Richard W. Swartz made significant contributions to the planning and development of the computer programs, and Herbert S. Isham was responsible for the implementation of those programs. The computer programs were also developed and written by John Sibley, Clifford Jordan, Linda M. Mersch, Adele Cerrelli, and Dan G. Sansbury. Mary D. Brady was responsible for most of the data preparation specifications and procedures. Matthew R. Golas was responsible for the coordination with the Computer Services Division. Johnnye Pringle was responsible for production control of the computer processing. Under the direction of Jesse Pollock, Edward K. Ricketts and Dennis K. Duke developed the sampling plans, some computer processing specifications, and quality control procedures.

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FINAL REPORT  
GEOGRAPHIC AREA SERIES

# 1982 Census of Construction Industries

CC82-A-1 to 10  
Changed October 1986

## CHANGE SHEET

This revision is to table 6 in the original publications for Geographic Area Series CC82-A-1 to 9 and table 9 for Geographic Area Series CC82-A-10. In the stub, change 1982 (line 8) to read 1981 and 1981 (line 12) to read 1982.



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# Pacific States

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## ECONOMIC CENSUSES OVER TIME

The early beginnings of America's industrial output were first measured in the United States in the 1810 Decennial Census and again in 1820, when questions on manufacturing were included with those for population. Beginning with the 1840 Decennial Census, there were enumerations of manufactures and mineral industries at 10-year intervals up to and including the year 1900 for manufactures and 1940 for mineral industries. The latter census was taken again for 1954, 1958, 1963, and 1967.

Because of the increasing dominance of manufacturing in the early 20th century, Congress directed that quinquennial censuses of manufactures be taken beginning in 1905. However, from 1919 through 1939, these censuses were conducted every 2 years. The need for war-related current surveys in the early 1940's postponed the next census of manufactures until 1948 (for 1947). That census was again taken for 1954, 1958, 1963, and 1967.

Retail and wholesale trade data were first collected in 1930, and in 1933 information on selected service industries was added to the data-collection operation. These business censuses, as they were called, were again taken for 1935, 1939 (as part of the 1940 decennial program), 1948, 1954, 1958, 1963, and 1967.

Information on construction industries was first obtained in 1930 and again for 1935 and 1939. Data for the full spectrum of construction industries were not gathered again until 1968 (for 1967).

The need for transportation data to supplement information available from existing governmental or private sources was recognized by Congress in the late 1950's and early 1960's. The census of transportation (consisting of several surveys) was first taken for 1963 and again for 1967.

Since 1967, all of the above censuses have been taken quinquennially as part of the Census Bureau's economic census program. (For the 1977 censuses, the coverage of the service

industries was broadened from "selected services" to all services, except religious organizations and private households. A total of 41 additional four-digit standard industrial classifications<sup>1</sup> (SIC's) in 7 SIC major groups was added to the scope of the census. While most of the industries included for the first time for 1977 were covered again for 1982, some were not, i.e., hospitals; elementary and secondary schools; colleges, universities, and professional schools; junior colleges and technical institutes; labor unions and similar labor organizations; and political organizations.)

The first manufacturing census for an outlying area was conducted in Puerto Rico for the year 1909. Thereafter, with the exception of 1929, a census was taken at 10-year intervals through 1949. The first censuses of retail trade, wholesale trade, and selected service industries in Puerto Rico were conducted for 1939. These censuses also were taken for the years 1949, 1954, 1958, 1963, and 1967. A census of construction industries was first introduced in Puerto Rico for 1967. These censuses of Puerto Rico have been taken since then for the years 1972, 1977, and 1982.

Censuses of manufactures, retail trade, wholesale trade, and selected service industries were conducted in Guam and the Virgin Islands of the United States for 1958, 1963, 1967, 1972, 1977, and 1982. Censuses of mineral industries were taken in the Virgin Islands of the United States for the years 1958, 1963, and 1967 but not since that time. A census of construction industries was also undertaken in these areas for 1972, 1977, and 1982.

Retail trade, wholesale trade, selected service industries, manufacturing, and construction industries were canvassed for the first time in the Northern Mariana Islands in 1983 (for 1982).

For 1982, the economic censuses and agriculture censuses were conducted concurrently.

## USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source for facts about the structure and functioning of the Nation's economy and provide essential information for government, business, industry, and the general public. They provide an important part of the framework for such composite measures as the gross national product, input-output measures, indexes of industrial production, and indexes measuring productivity and price levels. Information from the censuses is used to establish sampling frames and as benchmarks for current surveys of business activity, which are essential for measuring short-term economic conditions.

<sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No.041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.



State and local governments use census data to assess business activities within their jurisdictions. The private sector uses the data to forecast general economic conditions; analyze sales performance; lay out sales territories; allocate funds for advertising; decide on locations for new plants, warehouses, or stores; and measure potential markets in terms of size, geographic areas, kinds of business, and kinds of products made or sold.

Following every census, thousands of businesses and other users purchase reports. Likewise, census facts are widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. All 1982 data are available on microfiche from the U.S. Government Printing Office and most data on computer tape from the Census Bureau. Finally, the more than 50 State Data Centers also are suppliers of economic census statistics.

## **AUTHORITY AND SCOPE OF THE ECONOMIC CENSUSES**

The economic censuses are required by law under title 13 of the United States Code, sections 131, 191, and 224, which directs that they be taken at 5-year intervals for the years ending in 2 and 7. The 1982 Economic Censuses covered manufacturing, mining, construction industries, retail trade, wholesale trade, service industries, and selected transportation activities. Special programs also cover minority-owned and women-owned businesses. The next economic censuses are scheduled to be taken in 1988 for the year 1987.

## **METHOD OF ACCOUNTING AND TIME COVERED**

For the census report, respondents could use any system of accounting by which they maintained their books. Therefore, reports could be based on cash, accrual, or completion of contract methods of accounting.

A report was supposed to cover the calendar year 1982. If that involved considerable costs, fiscal year reporting was permitted if it did not produce great differences. However, all payroll and employment figures had to be reported for the calendar year.

## **CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION**

The 1982 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots as defined in the 1972 Standard Industrial Classification (SIC) Manual.<sup>1</sup> This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

**Contract construction**—The SIC manual defines construction in three broad types of activity: (1) building construction by general contractors, (2) other construction by general contractors, and (3) construction by special trade contractors.

1. **Building construction by general contractors**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other projects of a similar character.
2. **Other construction by general contractors**—Often referred to as heavy construction contractors, these contractors are primarily engaged in the construction of highways, streets, bridges, and tunnels; docks and piers; dams and water projects; sewage collection, treatment, and disposal facilities; storm sewer systems; air fields; and other heavy construction which involves either earth moving or the erection of structures and appurtenances, other than buildings.
3. **Construction by special trade contractors**—Special trade contractors are primarily engaged in specialized construction activities such as plumbing, painting, electrical work, carpentry, etc.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

**Construction on their own account, for sale**—Operative builders are primarily engaged in constructing buildings or other structures on their own account, acting as their own general contractor. These structures are generally sold when completed. Investment builders, primarily engaged in construction on their own account for rent or lease, were not included within the scope of the construction census.

**Subdividers and developers, except cemeteries**—The SIC manual defines subdividers and developers, except cemeteries, as establishments engaged in subdividing real property into lots, except cemetery lots, and in developing it for resale on their own account or for others.

In this system, each establishment is assigned an industry code on the basis of its major activity.

Each establishment receiving a questionnaire was requested to report the percent of total business receipts for each kind-of-business activity engaged in during 1982. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction receipts to total business receipts was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities, but in only a few instances do the SIC industry categories take into consideration combinations of activities. An example is SIC 1711, which includes establishments primarily engaged in plumbing, heating, air conditioning, ventilation, and refrigeration work. It is necessary, however, to assign a single industry code to the establishment based on its major activity.

<sup>1</sup>Standard Industrial Classification Manual: 1972. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 041-001-00066-6. 1977 Supplement. Stock No. 003-005-00176-0.



Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities.

The structure of the Standard Industrial Classification System makes it possible to classify or tabulate establishments by major group (two-digit), industry group (three-digit), or industry (four-digit) according to the degree of detail available and needed.

## ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business which has been established for the management of more than a single project or job and is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to, estimating, bidding, scheduling, purchasing, supervising, and operating the actual construction work being conducted at one or more construction sites.

Exceptions to the "relatively permanent office" rule were that: (1) in case of joint ventures, a separate establishment report was required covering the joint venture entity even though established to undertake only a single project; and (2) to the extent that separate legal entities were set up to carry out only a given project or part of a project, then a separate establishment report was also required for each legal entity.

To the extent that several companies shared or operated out of a single office or place of business, each such legal entity engaged in construction was considered a separate establishment and each was requested to file the necessary "establishment" report covering the activities it conducted in or from that common office.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1982.

Separate construction reports were not required for each project or construction site. Aggregated information was included in the report of the construction establishment responsible for the work of the construction projects and sites.

If an establishment engaged in two or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, construction, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1982 gross receipts from construction activities exceeded the gross receipts from each of its other activities.

An establishment is not necessarily identical with a "company" or "enterprise," which may consist of one or more establishments. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

Construction businesses with no payroll during 1982 (nonemployers) were not required to file census reports. Collection and tabulation of data for these businesses are described in the section on "Sample Design." Foreign construction activities were not included in this census.

## SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The firms included in the 1982 Census of Construction Industries were identified as part of an operation common to all 1982 Economic Censuses. Construction firms were divided into employers (firms with payroll) and nonemployers (firms without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government based on information supplied directly to the agencies.

### Employer Firms

**Developing the sampling frame for employer firms**—This operation started with obtaining a list of all construction firms in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of firms engaged in business activities in the United States. The file contains the name, address, and form of ownership of each firm and also indicates whether or not the firm is subject to the Federal Insurance Contributions Act. Each firm in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each firm. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative-record data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer firms. However, for the 1982 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those firms which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment firms and large single-establishment firms. Thus, the 1982 Economic Census list for single-establishment employer firms was obtained from the IRS-SSA, but the list of establishments of multi-establishment employer companies was obtained directly from those companies in the COS.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a firm to the proper economic census, but there were a number of firms for which this information was inadequate or unavailable. A special form, NC-9923, General Report, was mailed to all such firms, requesting information on the nature of the firm's activities. From the information reported, the firm was given an industrial classification code and assigned to the appropriate economic census. Since construction firms found in this way were identified as such, only after the regular census mailing had taken place, they were treated as a supplement to the basic list.



For 1982, some data will be published for Standard Consolidated Statistical Areas (SCSA's) and selected Standard Metropolitan Statistical Areas (SMSA's). Therefore, each establishment was assigned to an SMSA code or to the balance of a State. The balance of the State was considered to be a separate cell for the selection process. In States where none of the SMSA's had more than 500,000 inhabitants in the 1970 Decennial Census, all establishments were assigned to the balance of the State.

**Selecting the employer sample**—A construction universe of about 464,000 single establishment employer firms and 6,500 multiestablishment employers, accounting for another 13,000 construction establishments, was developed by the procedures described above. From this universe, a sample of 172,000 employer establishments was selected. This sample was generally organized by standard industrial classification (SIC) in State sequence. The sample was designed to provide publishable estimates for the most construction industries at the State and selected SMSA level. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with the payroll equivalent of 20 employees or more, and a sample of single-establishment companies with less than 20 employees. There were three SIC's for which this standard plan was not used: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

The number of establishments classified in each of these three industries is very small and consequently, all single-unit establishments in these three industries were included in the sample. For sampling purposes, the number of employees was estimated from the 1981 payroll data in the administrative records, using an industry average wage per employee. The sampling was accomplished using a systematic method within each four-digit SIC. If the SIC code for an establishment was not complete, it was sampled as part of a two-digit group (e.g., 1520 was sampled as 1500, 1620 as part of 1600) except for non-classifiable cases in two-digit group 17. These were sampled as part of 1799 which is Special Trade Contractors, Not Elsewhere Classified. For the establishments with less than 20 employees, the sample was selected by sorting the establishments into State by SMSA by SIC by payroll sequences, and drawing a systematic sample of at least two establishments within each cell, with the probability of selection being proportional to the 1981 payroll. If the State-SMSA-SIC cell had two or less establishments in the frame, all establishments were selected (a 100-percent sample). A 100-percent sample was taken of the construction firms identified from the NC-9923, General Report, and of the transfers from other census trade areas. These latter cases were identified during the processing stages. These were caused either by changes of activity in the firm since the last updating of the classification file, or errors in the mailout classification. These cases were all added to the construction census, with certainty.

**Estimation procedures for 1982 and 1977 data**—Since all larger employer firms and some smaller ones were included in the census, sample estimation was required only for the universe of firms not selected with certainty. The published statistics are the totals of the estimates for the sampled firms and the

aggregates for the certainty (larger) firms. All estimates for 1982 and 1977 published here are simple unbiased estimates of the form:

$$x'_c = \sum_{i=1}^{n_c} x_i/p_i$$

where:  $x'_c$  is the simple unbiased estimate of a characteristic for a publication cell.

$x_i$  is the reported value of a characteristic for an individual establishment in the publication cell.

$p_i$  is the selection probability of that firm.

$n_c$  is the number of firms in the sample for the cell.

This method of estimation was used for all 1982 and 1977 characteristics. Before this formula was applied, it was necessary to convert into dollars those distributions of construction receipts which had been reported by the establishments as percentages—construction receipts by type of project, location of project, etc.

**Reliability of employer statistics**—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimates directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Although relative standard errors have been calculated for all of the published statistics, they are shown for each statistic only in the tables presenting detailed statistics. The other tables show relative standard errors only for some characteristics because of lack of space.

Separate measures of reporting and processing errors are not available. However, estimates which were subject to large errors of these types are likely to have been detected and corrected, or withheld from publication in the process of the review of the data for reasonableness and consistency. Other specific qualifications of the published data are indicated in footnotes to the tables.

The statistics in this report were based on data received by the time of final publication. Data were imputed for



establishments that did not report by that date. Selected establishments were contacted again to obtain as much information on the telephone as possible. Late data received in early 1984 were substituted for imputed data when the difference between the two was significant. Some publication cells in which more than 50 percent of the data were imputed have been suppressed.

## **Nonemployer Firms**

**General**—As described earlier, the information derived from the business income tax returns of all firms was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with firms without payroll were treated as nonemployers. The nonemployer construction firms were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts" was based on receipts information reported on the tax return. In 1982, this group accounted for 60 percent of the total number of construction establishments, but accounted for only 8 percent of all business receipts of all construction establishments.

**Qualifications to the nonemployer data**—Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

## **CENSUS REPORT FORMS**

Information for the 1982 Census of Construction Industries was obtained from employer establishments primarily through the use of eight questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the three two-digit SIC groups (15, 16, and 17), and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted most of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were solicited from construction trade associations and appropriate advisory groups. The Census Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

## **DATA PROCESSING**

The 1982 census report forms were mailed out in December 1982. Collection of these report forms, also by mail, was essentially completed in July 1983. They were mailed from and

returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters in Washington, D.C.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding) and imputation for missing items or for the small number of reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

## **GEOGRAPHIC CLASSIFICATION**

Information for the 1982 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. Separate State codes were assigned based on this information.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected SCSA's and SMSA's.

## **DUPLICATION IN RECEIPTS**

The aggregate of construction receipts reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work (and the receipts) of one firm may be subcontracted to other construction firms and also be included in the subcontractors' receipts. To avoid this duplication, a "net construction receipts" figure has been derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts.

Duplication in receipts between other construction and non-construction industries results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is



defined in the 1982 Census of Construction Industries as equal to all business receipts less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, value added is defined as equal to all business receipts less land receipts, payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels.

## SPECIAL TABULATIONS

Special tabulations of data collected in the 1982 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies), as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, D.C., 20233.

To discuss a special tabulation before submitting specifications, call 301-763-5435.

## RELATIONSHIPS OF THE ECONOMIC CENSUSES TO CURRENT SURVEYS

The Census Bureau also conducts current surveys (monthly, quarterly, and annually) to keep abreast of the rapid changes in business conditions, new processes, new materials, and shifting demands of goods and services. The census universe provides the sampling frame, weights, and benchmarks on which some of these current surveys are based. The accuracy of the measures derived from these current surveys is directly related to the completeness of information provided in the censuses.

## COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1982 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas, the construction census figures cover both new construction and

maintenance and repair work, but only for establishments classified in the construction industry. Force account construction activity—construction work performed by the labor force of a nonconstruction company for itself, or by other entities (Federal, State, or local governments) for themselves, or by property owners for themselves—probably accounts for more than half of the difference in the data of the two series of reports. Other factors contributing to the difference are that the census data do not include: (1) the value of materials supplied by the owners of projects, (2) the value of separate architectural and engineering services and, to a lesser extent, (3) the value of construction work performed for others by firms outside the scope of construction (manufacturers who install, lumber yards and other businesses, etc.).

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology. Their effect is not fully known.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others. (See Duplication in Receipts.)
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts." (See Duplication in Receipts.)
- ‡ Possible duplication in data. (See Duplication in Receipts.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- n.s.k. Not specified by kind.

# Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By industry	By employ- ment size	By receipts size	By type, class, ownership, kind of business, and location of construction <sup>1</sup>	By SCSA and SMSA <sup>2</sup>
Assets and depreciation (gross book value):						
Beginning of year—structures, machinery and equipment . . . . .	5					
End of year—total . . . . .	3, 5	3	7	8		
End of year—structures, machinery and equipment . . . . .	5					
Depreciation charges during the year— structures, machinery and equipment . . . . .	5					
Capital expenditures:						
Total capital expenditures . . . . .	3, 5	3	7	8		12
New structures—machinery and equipment . . . . .	5					
Used structures—machinery and equipment . . . . .	5					
Communication services, payments for . . . . .	4					
Employees:						
All employees—average number . . . . .	1, 3	3	7	8		12
Construction workers—average number . . . . .	3, 4, 10	3, 10				
Other employees—March . . . . .	4					
Employer costs for fringe benefits—legally required and voluntary expenditures . . . . .	4					
Establishments:						
Number in business at end of year . . . . .	4					
Number in business during the year:						
All . . . . .	1			2		
With payroll . . . . .	1, 3, 4, 6, 10	3, 10	7	2, 8		12
Without payroll . . . . .	1			2		
Hours—construction workers:						
Total . . . . .	3, 4, 10	3, 10	7	8		
Quarterly . . . . .	4, 10	10				
Inventories . . . . .	6					
Materials, components, supplies, and fuels— payments for . . . . .	3, 4	3	7	8		12
Payroll:						
First quarter, all employees . . . . .	4					
Annual:						
All employees . . . . .	3, 4	3	7	8		12
Construction workers . . . . .	3, 4	3				
Other employees . . . . .	4					
Power, fuels, and lubricants—payments for . . . . .	4					
Proprietors and working partners:						
All establishments . . . . .	1			2		
Establishments with payroll . . . . .	1, 4			2		
Establishments without payroll . . . . .	1			2		
Ratios, industry . . . . .	11	11				
Receipts:						
All business receipts:						
All establishments . . . . .	1			2		
Establishments with payroll . . . . .	1, 4		7	2, 8		
Establishments without payroll . . . . .	1			2		
Construction receipts, total . . . . .	3, 4, 6	3	7	8	4, 9	12
For work subcontracted in from others . . . . .	4					
Other business receipts and land receipts . . . . .	4					
Net construction receipts . . . . .	3, 4	3	7	8		12
Value added . . . . .	3, 4	3	7	8		12
Rental payments:						
Total . . . . .	3, 4	3	7	8		
For machinery and equipment . . . . .	4					
For structures . . . . .	4					
Repairs to structures and related facilities . . . . .	4					
Repairs to machinery and equipment . . . . .	4					
Storage capacity for fuels <sup>3</sup> . . . . .	4					
Subcontract work to others, payments for . . . . .	3, 4	3	7	8		12

Note: Data for 1977 and earlier years are also available in some of these tables.

<sup>1</sup>Type—buildings, roads, etc. Class—new construction or maintenance and repair work. Ownership—private or government owned.

<sup>2</sup>SCSA—Standard Consolidated Statistical Area; SMSA—Standard Metropolitan Statistical Area.

<sup>3</sup>Storage capacity for fuels shown only for SIC's 1611, 1622, 1623, and 1629.

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-- Not applicable.







# SUMMARY OF FINDINGS

During 1982, 5,739 establishments in Alaska operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$2.5 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 3,982 establishments in this State with no payroll accounted for about 12 percent of all business receipts for all construction establishments in Alaska. On the other hand, 1,757 establishments classified as "employers" accounted for 88 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$2.2 billion, of which \$2.1 billion were receipts for construction work. These establishments paid \$410 million for construction work subcontracted to others, leaving net construction receipts of about \$1.6 billion. Value added for these establishments amounted to \$1.1 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Alaska paid \$589 million for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$47.6 million were also made for selected power, fuels, and

lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Alaska was 22.2 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 5.0 million hours, while hours worked during the third quarter were 8.1 million hours.

Total payroll for 1982 was \$535 million. Payments of \$103 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Alaska are based on a sample of about 962 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1982													
	Construction Industries and subdividers and developers-----	5 739	4 686	22 229	2 473 639	3 982	4 087	307 606	1 757	599	22 229	2 166 033	1	1
15,16,17	Construction Industries¹-----	5 580	4 509	22 046	2 433 059	3 850	3 915	280 994	1 730	594	22 046	2 152 065	1	1
15	General building contractors and operative bullders-----	1 859	1 400	5 543	860 294	1 233	1 249	142 838	626	151	5 543	717 456	3	2
16	Heavy construction, general contractors ..	411	309	6 322	655 368	253	264	19 913	158	45	8 322	835 455	1	1
17	Special trade contractors-----	3 310	2 800	10 181	917 397	2 364	2 402	118 243	946	398	10 181	799 154	2	2
1711	Plumbing, heating, and air conditioning----	344	248	1 876	171 940	206	211	11 843	138	37	1 876	160 097	4	6
1731	Electrical work-----	330	274	3 452	249 569	138	134	10 534	192	*140	3 452	239 035	2	3
6552	Subdividers and developers, n.e.c.²-----	155	175	178	40 577	132	172	26 612	23	(S)	178	13 965	24	17
	1977													
	Construction Industries and subdividers and developers-----	3 285	2 858	16 855	1 523 852	1 889	2 044	96 045	1 396	814	16 855	1 427 807	1	1
15,16,17	Construction Industries¹-----	3 181	2 710	16 771	1 508 022	1 796	1 898	86 522	1 385	812	16 771	1 421 500	1	1
15	General building contractors and operative bullders-----	764	809	3 560	452 723	474	518	48 738	490	291	3 560	403 985	4	3
16	Heavy construction, general contractors ..	352	266	7 689	658 894	157	159	8 198	195	107	7 689	652 696	2	1
17	Special trade contractors-----	1 865	1 635	5 522	396 405	1 165	1 221	31 586	700	414	5 522	364 819	3	2
1711	Plumbing, heating, and air conditioning----	268	205	1 006	82 368	136	139	3 916	132	66	1 006	78 452	10	6
1731	Electrical work-----	202	159	2 154	145 645	64	64	2 152	138	95	2 154	143 493	3	2
6552	Subdividers and developers, n.e.c.²-----	111	148	85	15 834	93	146	9 523	18	2	85	6 311	18	15

<sup>1</sup>For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

<sup>2</sup>For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.



**Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
<b>1982</b>													
<b>The State</b> -----	5 739	4 686	22 229	2 473 639	3 982	4 087	307 606	1 757	599	22 229	2 166 033	1	1
\$10,000,000 or more -----	34	10	8 171	832 490	—	—	—	34	10	8 171	832 490	(W)	(W)
\$5,000,000 to \$9,999,999 -----	53	4	3 487	(D)	—	—	—	53	4	3 487	(D)	(W)	—
\$2,500,000 to \$4,999,999 -----	80	19	2 359	660 901	9	9	31 153	71	10	2 359	629 748	(W)	(W)
\$1,000,000 to \$2,499,999 -----	244	81	2 913	375 941	36	40	50 104	208	41	2 913	325 837	5	6
\$500,000 to \$999,999 -----	313	128	2 161	221 948	60	58	41 169	253	70	2 161	180 779	8	8
\$250,000 to \$499,999 -----	443	245	1 511	160 227	154	163	54 740	289	82	1 511	105 487	9	9
\$100,000 to \$249,999 -----	857	685	1 063	136 251	409	435	64 461	448	250	1 063	71 790	9	11
\$50,000 to \$99,999 -----	607	492	390	43 140	410	435	28 811	197	57	390	14 329	14	10
\$25,000 to \$49,999 -----	632	591	131	22 439	524	536	18 300	108	55	131	4 139	19	15
Less than \$25,000 -----	2 474	2 431	101	20 300	2 380	2 411	18 868	94	*20	101	1 432	14	18
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	811	819	12 843	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	573	580	4 010	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	548	558	1 567	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	448	454	448	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>1977</b>													
<b>The State</b> -----	3 285	2 858	16 855	1 523 852	1 889	2 044	96 045	1 396	814	16 855	1 427 807	1	1
\$10,000,000 or more -----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 <sup>2</sup> -----	63	5	7 703	(D)	2	4	(D)	61	1	7 703	729 641	(W)	(W)
\$2,500,000 to \$4,999,999 -----	51	13	1 809	(D)	1	1	(D)	50	12	1 809	171 551	(W)	(W)
\$1,000,000 to \$2,499,999 -----	146	61	2 080	1 182 176	12	17	27 898	134	44	2 080	206 675	3	4
\$500,000 to \$999,999 -----	174	85	1 507	124 187	17	23	11 449	157	62	1 507	112 738	6	7
\$250,000 to \$499,999 -----	293	177	1 394	101 849	27	30	8 868	266	147	1 394	92 981	9	2
\$100,000 to \$249,999 -----	401	293	1 066	64 268	103	125	16 070	298	168	1 066	48 198	11	10
\$50,000 to \$99,999 -----	381	353	405	26 541	189	224	12 921	192	129	405	13 620	19	16
\$25,000 to \$49,999 -----	389	387	(S)	13 949	269	295	9 445	(S)	(S)	(S)	(S)	—	—
Less than \$25,000 -----	1 441	1 476	(S)	10 881	1 270	1 327	9 394	(S)	(S)	(S)	(S)	—	—
\$10,000 to \$24,999 -----	456	492	(S)	7 371	389	414	6 291	(S)	(S)	(S)	(S)	—	—
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	298	312	2 043	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	307	314	867	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	276	272	193	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

<sup>2</sup>Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

**Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and subdividers and developers-----	1 757	22 229	17 824	534 677	433 377	25 320	2 055 137	1 644 925
15,16, 17	Construction Industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	304	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings-----	53	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders-----	105	458	347	9 205	6 965	608	173 341	45 956
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	47	812	633	20 119	15 660	903	55 225	36 889
1542	Nonresidential buildings, n.e.c.-----	117	2 123	1 679	55 624	43 860	3 620	358 099	185 036
16	Heavy construction general contractors:								
1611	Highway and street construction-----	77	2 298	1 938	65 363	55 271	3 382	243 896	205 822
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	7	448	361	11 750	10 608	427	32 148	(D)
1623	Water, sewer, and utility lines-----	34	1 546	1 222	43 110	32 769	1 375	154 356	137 460
1629	Heavy construction, n.e.c.-----	40	2 030	1 609	47 343	37 394	2 354	172 292	154 131
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning-----	138	1 876	1 457	42 506	32 212	1 589	150 235	127 483
1721	Painting, paper hanging, and decorating-----	68	248	222	6 876	5 767	289	17 880	15 921
1731	Electrical work-----	192	3 452	2 712	96 316	81 471	3 782	234 373	228 490
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework-----	41	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work-----	60	777	605	13 314	11 346	766	48 023	44 980
1743	Terrazzo, tile, marble, and mosaic work-----	3	(D)	(D)	(D)	(D)	(D)	(S)	(D)
175	Carpentering and flooring:								
1751	Carpentering-----	95	299	288	6 097	5 724	442	22 746	18 441
1752	Floor laying and other floorwork-----	26	130	105	2 368	1 889	101	11 827	10 794
1761	Roofing and sheet metal work-----	49	535	436	11 347	9 540	456	40 285	38 424
1771	Concrete work-----	42	(D)	256	7 685	6 530	378	42 207	(D)
1781	Water well drilling-----	20	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	14	(S)	(S)	(S)	(S)	(S)	(S)	(D)
1793	Glass and glazing work-----	10	97	66	2 163	1 407	84	6 310	6 310
1794	Excavating and foundation work-----	113	1 412	1 126	33 237	28 382	1 757	126 323	118 904
1795	Wrecking and demolition work-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.-----	7	98	82	3 021	2 406	85	11 586	11 468
1799	Special trade contractors, n.e.c.-----	67	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Subdividers and developers, n.e.c.-----	23	178	86	2 260	804	86	18 703	6 818

†Land receipts for SIC 1531 were \$12,736; for SIC 6552 were \$4,420.



1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 101 841	636 822	410 212	49 228	50 330	460 510	16 855	1 374 077	803 139	1	1	3	15,16,17
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	—	—	152
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	—	—	1521
12 488	34 224	27 385	393	1 522	19 770	398	40 021	8 163	10	11	16	1531
24 416	13 026	18 335	1 032	1 318	4 929	431	59 166	31 032	7	9	23	154
127 309	80 565	173 063	3 939	3 264	35 882	815	121 088	46 858	4	2	3	1541
												16
144 999	66 531	38 073	9 942	13 177	103 450	2 420	196 651	114 760	2	2	3	1611
10 620	18 785	(D)	(D)	466	8 708	(D)	(D)	(D)	(W)	—	(W)	162
80 019	59 493	16 896	7 081	4 347	51 860	4 080	334 446	218 155	2	2	4	1622
140 167	38 955	18 161	5 061	4 308	48 240	1 175	94 910	79 776	2	1	1	1623
												1629
												17
74 557	62 787	22 752	1 187	2 197	18 915	1 006	74 189	42 195	4	6	6	1711
11 792	(D)	1 958	55	336	5 920	291	12 494	9 136	13	12	17	1721
152 915	80 237	5 883	3 231	5 888	32 382	2 154	139 647	113 534	2	3	5	1731
(S)	(S)	(S)	(S)	(S)	(S)	119	4 938	2 951	—	—	—	174
24 179	22 648	*3 042	340	1 030	5 913	460	32 767	22 701	10	18	17	1741
(D)	(S)	(D)	(S)	(S)	(S)	(D)	(D)	(D)	—	—	—	1743
13 591	6 192	4 305	186	756	6 151	215	6 500	5 183	15	22	17	175
4 312	6 898	(S)	18	*377	1 097	63	3 869	1 977	20	36	42	1751
												1752
22 510	16 722	1 860	238	704	5 679	242	17 870	9 827	9	8	8	1761
(D)	13 697	(D)	1 188	(D)	(D)	73	5 021	3 542	—	—	—	1771
(S)	(S)	(S)	(S)	(S)	(S)	79	5 279	3 355	—	—	—	1781
(S)	(S)	(D)	(D)	(S)	(S)	187	7 491	5 930	—	—	—	179
4 478	3 479	—	211	98	809	50	3 131	2 228	13	6	21	1791
102 241	27 489	7 418	11 608	4 252	64 117	250	16 175	13 492	6	5	10	1793
(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—	—	1794
9 181	(D)	118	76	185	1 582	(D)	(D)	(D)	(W)	(W)	(W)	1795
(S)	(S)	(S)	(S)	(S)	(S)	256	15 376	11 243	—	—	—	1796
												1799
5 727	1 932	1 885	67	347	5 043	85	3 154	1 534	24	14	8	6552

**Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year .....	1 757	1 396	1 055	548	4	5	7	7
Number of establishments in business at end of year .....	1 714	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Proprietors and working partners .....	599	814	647	340	17	10	9	12
All employees** .....	22 229	16 855	6 836	4 011	1	1	5	3
Construction workers:								
March .....	13 771	11 574	3 192	2 247	1	1	6	4
May .....	17 266	15 139	5 593	3 810	2	2	7	3
August .....	22 636	17 474	8 575	4 456	1	2	6	3
November .....	17 189	13 429	5 486	2 869	2	2	5	4
Average .....	17 824	14 417	5 840	3 375	1	1	5	3
Other employees:								
March .....	4 336	2 226	875	586	2	3	5	5
Construction worker hours (thousands):								
January to March .....	4 972	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
April to June .....	6 063	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
July to September .....	8 053	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
October to December .....	6 231	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Total hours worked .....	25 320	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees .....	534 677	463 639	100 422	53 993	1	1	4	2
Payroll, construction workers .....	433 377	399 045	85 009	46 054	1	1	4	2
Payroll, other employees .....	101 300	64 594	15 413	7 945	1	1	4	3
First quarter payroll, all employees .....	99 917	79 707	(NA)	(NA)	1	1	(NA)	(NA)
Employer costs for fringe benefits .....	102 914	92 575	(NA)	(NA)	1	1	(NA)	(NA)
Legally required expenditures .....	77 750	43 116	(NA)	(NA)	1	1	(NA)	(NA)
Voluntary expenditures .....	25 164	49 459	(NA)	(NA)	1	1	(NA)	(NA)
All business receipts .....	2 166 033	1 427 807	414 446	216 336	1	1	7	2
Total construction receipts .....	2 055 137	1 374 077	396 474	207 942	1	1	6	2
Receipts for work subcontracted in from others .....	435 134	250 291	72 289	42 792	5	2	7	3
Land receipts <sup>1</sup> .....	17 156	(NA)	(NA)	(NA)	10	(NA)	(NA)	(NA)
Other business receipts .....	93 739	53 730	17 972	8 408	2	2	25	7
Net construction receipts† .....	1 644 925	1 130 233	304 272	167 363	1	1	5	2
Value added†† .....	1 101 841	803 139	204 291	109 674	1	1	4	2
Selected payments .....	1 047 034	617 730	202 935	105 840	2	2	9	2
Materials, components, and supplies <sup>2</sup> .....	589 248	350 713	110 733	65 256	2	2	7	2
Construction work subcontracted to others .....	410 212	243 844	92 202	40 571	1	2	13	4
Selected power, fuels, and lubricants .....	47 574	23 173	(NA)	(NA)	2	2	(NA)	(NA)
Electricity .....	4 542	3 720	(NA)	(NA)	3	3	(NA)	(NA)
Natural gas .....	1 022	965	(NA)	(NA)	4	8	(NA)	(NA)
Gasoline and diesel fuel (including gasohol) .....	39 345	15 491	(NA)	(NA)	3	2	(NA)	(NA)
Other, including lubricating oils and greases .....	2 664	3 002	(NA)	(NA)	3	4	(NA)	(NA)
Storage capacity for fuels (thousand gallons) <sup>3</sup> .....	1 569	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures .....	49 228	30 406	(NA)	(NA)	4	4	(NA)	(NA)
For machinery and equipment .....	40 802	26 018	16 946	6 125	5	4	26	3
For structures .....	8 425	4 388	(NA)	(NA)	3	3	(NA)	(NA)
Selected purchased services .....	44 148	40 390	(NA)	(NA)	2	4	(NA)	(NA)
Communication services .....	6 799	4 193	(NA)	(NA)	2	10	(NA)	(NA)
Repairs to structures and related facilities .....	2 722	2 847	(NA)	(NA)	2	3	(NA)	(NA)
Repairs to machinery and equipment .....	34 625	33 351	(NA)	(NA)	2	4	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts .....	2 055 137	1 374 077	396 474	207 942	1	1	6	2
Government owned .....	790 828	328 154	210 247	150 798	2	1	7	2
Privately owned .....	1 264 308	1 045 923	186 227	359 834	2	1	11	2

<sup>1</sup>Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

<sup>2</sup>For 1967 and 1972, includes data for power, fuels, and lubricants.

<sup>3</sup>Data were collected only for establishments classified as heavy construction contractors.

Table 5. **Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
<b>STRUCTURES, MACHINERY, AND EQUIPMENT</b>								
Beginning-of-year gross book value of depreciable assets -----	430 843	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	50 330	64 705	16 754	7 810	3	2	7	7
New -----	30 389	49 643	11 055	4 838	3	2	10	5
Used -----	19 940	15 063	5 699	2 972	4	4	5	12
Retirements and disposition of depreciable assets -----	20 662	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	460 510	290 322	86 608	(NA)	2	3	8	(NA)
Depreciation charges during year -----	60 803	35 125	10 281	(NA)	2	2	7	(NA)
<b>Structures, Additions, and Related Facilities</b>								
Beginning-of-year gross book value of depreciable assets -----	84 366	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	4 153	11 188	2 622	1 252	6	4	26	22
New structures and related facilities -----	3 058	9 349	1 900	355	7	5	40	9
Used structures and related facilities -----	1 094	1 839	722	897	13	3	13	35
Retirements and disposition of depreciable assets -----	1 848	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	86 671	55 692	14 937	(NA)	3	4	12	(NA)
Depreciation charges during year -----	11 015	5 255	1 102	(NA)	4	2	12	(NA)
<b>Machinery and Equipment</b>								
Beginning-of-year gross book value of depreciable assets -----	346 477	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	46 177	53 517	14 132	6 558	3	3	6	6
New machinery and equipment, including automobiles and trucks -----	27 331	40 294	9 155	4 483	3	2	7	6
New automobiles and trucks, intended primarily for highway use -----	10 533	6 160	(NA)	(NA)	5	4	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	18 845	13 223	4 977	2 075	5	4	5	6
Retirements and disposition of depreciable assets -----	18 814	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	373 839	234 630	71 671	(NA)	2	4	8	(NA)
Depreciation charges during year -----	49 788	29 870	9 179	(NA)	2	3	6	(NA)

Table 6. **Value of Inventories for Establishments With Payroll: 1982 and 1981**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
<b>All establishments:</b>		
Number .....	1 757	4
Total construction receipts .....	2 055 137	1
<b>Establishments with inventories:</b>		
Number .....	499	16
Total construction receipts .....	609 406	3
<b>Inventories<sup>1</sup>:</b>		
End of 1982, total .....	39 973	7
Value for establishments with LIFO reserve .....	1 184	27
Amount of LIFO reserve .....	984	32
Value for establishments with no LIFO reserve .....	38 789	7
End of 1981, total .....	27 138	8
Value for establishments with LIFO reserve .....	1 184	27
Amount of LIFO reserve .....	977	32
Value for establishments with no LIFO reserve .....	25 954	9
<b>Establishments with no inventories:</b>		
Number .....	1 258	5
Total construction receipts .....	1 445 731	2

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.



**Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
<b>1982</b>											
Number of establishments -----	1 757	1 036	341	205	103	36	25	5	5	—	
All employees** -----	22 229	2 079	2 272	2 712	3 318	2 525	4 247	1 762	3 313	—	
Payroll, all employees -----	534 677	35 241	48 562	75 419	91 587	65 004	113 750	39 894	65 219	—	
Construction worker hours (thousands) -----	25 320	2 299	2 682	3 314	4 068	2 968	5 098	1 999	2 889	—	
All business receipts -----	2 166 033	198 863	236 526	712 754	(D)	308 469	387 619	321 801	(D)	—	
Total construction receipts -----	2 055 137	190 420	225 228	320 594	356 871	281 334	375 581	151 473	153 635	—	
Net construction receipts† -----	1 644 925	155 704	177 833	246 017	282 309	192 772	338 774	111 742	139 773	—	
Value added†† -----	1 101 841	91 366	98 054	152 180	183 851	153 910	237 613	78 722	106 142	—	
Payments for materials, components, supplies, and fuels -----	636 822	70 094	85 500	104 046	114 641	65 997	113 198	83 344	(D)	—	
Payments for construction work subcontracted to others -----	410 212	34 715	47 395	74 576	74 562	88 562	36 807	39 731	13 862	—	
Rental payments for machinery, equipment, and structures -----	49 228	2 166	6 580	6 724	10 952	8 861	10 157	703	3 083	—	
Capital expenditures, other than land -----	50 330	4 367	7 038	7 229	8 340	8 247	10 524	779	3 804	—	
End-of-year gross book value of depreciable assets -----	460 510	42 235	58 365	56 290	71 755	60 292	113 607	14 088	43 877	—	
<b>1977</b>											
All employees** -----	16 855	1 719	2 019	2 191	2 139	1 202	1 360	2 256	(D)	3 970	
Total construction receipts -----	1 374 077	104 419	159 157	183 463	211 530	111 169	151 031	146 657	(D)	306 653	
Value added†† -----	803 139	52 209	75 791	94 182	119 595	66 957	100 311	120 334	(D)	173 760	
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** -----	1	7	8	6	3	(W)	(W)	(W)	(W)	—	
Net construction receipts† -----	1	9	8	4	2	(W)	(W)	(W)	(W)	—	
Capital expenditures, other than land -----	3	16	14	9	4	(W)	(W)	(W)	(W)	—	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

**Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									\$10,000,000 or more
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	
<b>1982</b>											
Number of establishments .....	1 757	94	108	197	448	289	253	208	71	53	34
All employees** .....	22 229	101	131	330	1 063	1 511	2 161	2 913	2 359	3 487	8 171
Payroll, all employees .....	534 677	380	1 145	3 705	17 736	28 408	44 014	73 913	61 152	86 538	217 684
Construction worker hours (thousands) .....	25 320	62	114	312	1 125	1 705	2 211	3 557	2 785	3 594	9 852
All business receipts .....	2 166 033	1 432	4 139	14 329	71 790	105 487	180 779	325 837	629 748	(D)	832 490
Total construction receipts .....	2 055 137	1 414	3 976	14 061	70 117	100 387	169 931	309 647	242 976	357 161	785 465
Net construction receipts† .....	1 644 925	1 222	3 241	12 316	60 429	87 048	136 964	256 004	191 310	275 334	621 056
Value added†† .....	1 101 841	832	2 002	8 040	36 198	55 644	76 102	155 742	126 883	181 740	458 654
Payments for materials, components, supplies, and fuels .....	636 822	408	1 317	4 484	25 263	35 052	66 733	113 533	73 899	106 703	209 426
Payments for construction work subcontracted to others .....	410 212	192	735	1 745	9 687	13 339	32 967	53 643	51 666	81 827	164 409
Rental payments for machinery, equipment, and structures .....	49 228	(S)	79	156	1 280	1 671	4 906	7 879	6 313	10 416	16 492
Capital expenditures, other than land .....	50 330	(S)	*73	366	1 912	4 367	4 173	5 376	8 278	8 725	17 035
End-of-year gross book value of depreciable assets .....	460 510	*387	1 193	4 023	20 207	25 015	45 828	55 865	55 259	78 819	173 912
<b>1977</b>											
All employees** .....	16 855	(S)	(S)	405	1 066	1 394	1 507	2 080	1 809	18 215	(NA)
Total construction receipts .....	1 374 077	(S)	(S)	13 393	45 782	90 328	107 609	196 856	163 411	1751 046	(NA)
Value added†† .....	803 139	(S)	(S)	7 945	25 554	44 506	56 984	99 870	92 283	1473 104	(NA)
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** .....	1	14	19	14	9	9	8	5	(W)	(W)	(W)
Net construction receipts† .....	1	18	17	11	12	10	7	6	(W)	(W)	(W)
Capital expenditures, other than land .....	3	—	61	27	23	20	15	16	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

\*Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.



**Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction <sup>1</sup>	Maintenance and repair			
	A	B	C	A	B	C
<b>1982</b>						
<b>Total construction receipts†</b> .....	<b>2 055 137</b>	<b>1 767 004</b>	<b>288 132</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Building construction</b> .....	<b>1 063 267</b>	<b>946 511</b>	<b>116 756</b>	<b>2</b>	<b>2</b>	<b>4</b>
Single-family houses .....	308 889	274 412	34 477	5	5	8
Single-family houses, detached .....	259 130	228 860	30 269	5	6	9
Single-family houses, attached .....	49 759	45 551	4 207	9	10	13
Apartment buildings with two or more apartments .....	54 834	44 962	9 871	8	7	8
Other residential buildings .....	25 601	21 820	3 780	10	12	7
Office and bank buildings .....	195 790	175 114	20 676	3	3	11
Office buildings .....	166 013	150 645	15 367	4	4	15
Bank buildings and other financial institutions .....	29 777	24 469	5 308	3	3	8
Industrial buildings and warehouses .....	144 909	128 607	16 301	4	3	9
Industrial buildings .....	113 165	100 792	12 372	4	4	7
Warehouses .....	31 744	27 815	3 928	9	9	25
Stores, restaurants, public garages, and automobile service stations .....	73 652	60 942	12 709	4	5	8
Educational buildings .....	114 988	104 687	10 301	4	4	7
Hospitals and institutional buildings .....	60 762	56 359	4 402	4	4	5
Amusement, social, and recreational buildings .....	34 899	33 380	1 518	2	2	5
Other nonresidential buildings .....	48 937	46 222	2 715	2	2	1
<b>Nonbuilding construction</b> .....	<b>702 215</b>	<b>572 093</b>	<b>130 121</b>	<b>1</b>	<b>1</b>	<b>2</b>
Highways, streets, and related facilities .....	259 423	227 950	31 472	2	1	10
Bridges, tunnels, and elevated highways .....	29 042	(D)	(D)	(W)	-	-
Dam and reservoir construction .....	19 345	19 345	-	(W)	(W)	-
Harbor and port facilities .....	34 069	31 947	2 122	7	7	37
Power and communication transmission lines, towers, and related facilities .....	77 541	65 153	12 387	1	1	(W)
Sewers, water mains, and related facilities .....	101 916	96 311	5 605	2	1	8
Sewers, sewer lines, and related facilities .....	50 307	46 604	3 702	3	2	9
Water mains and related facilities .....	51 608	49 706	1 902	(W)	-	(W)
Sewage treatment and water treatment plants .....	6 891	6 891	-	3	3	-
Heavy industrial facilities .....	21 763	(D)	(D)	3	-	-
Oilfields .....	99 427	51 473	47 953	(W)	(W)	(W)
Other nonbuilding construction .....	52 793	33 429	19 362	5	5	4
<b>Construction work, n.s.k.</b> .....	<b>289 654</b>	<b>248 399</b>	<b>41 254</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>1977</b>						
<b>Total construction receipts†</b> .....	<b>1 374 077</b>	<b>1 149 644</b>	<b>224 433</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Building construction</b> .....	<b>617 144</b>	<b>557 421</b>	<b>59 723</b>	<b>2</b>	<b>2</b>	<b>4</b>
Single-family houses .....	154 739	142 151	12 588	7	8	9
Apartment buildings with two or more apartments .....	80 840	75 324	5 516	4	4	12
Other residential buildings .....	34 614	27 932	6 682	3	1	12
Office and bank buildings .....	83 241	73 673	9 568	3	3	7
Industrial buildings and warehouses .....	124 101	114 174	9 927	1	1	6
Stores, restaurants, public garages, and automobile service stations .....	45 962	39 669	6 293	5	5	11
Educational buildings .....	43 288	40 657	2 631	1	1	7
Hospitals and institutional buildings .....	25 499	24 140	1 359	(W)	(W)	5
Amusement, social, and recreational buildings .....	13 146	12 542	604	2	2	9
Other nonresidential buildings .....	11 714	7 159	4 555	8	1	19
<b>Nonbuilding construction</b> .....	<b>627 655</b>	<b>469 656</b>	<b>157 999</b>	<b>1</b>	<b>1</b>	<b>1</b>
Highways, streets, and related facilities .....	204 214	128 828	75 386	2	3	1
Bridges, tunnels, and elevated highways .....	7 826	7 709	117	1	1	(W)
Harbor and port facilities .....	8 819	7 593	1 226	12	12	22
Power and communication transmission lines, towers, and related facilities .....	17 517	16 908	609	3	3	6
Sewers, water mains, and related facilities .....	36 633	35 158	1 475	6	6	11
Pipeline, other than sewer or water lines .....	254 307	(D)	(D)	(W)	-	-
Sewage treatment and water treatment plants .....	7 123	(D)	(D)	(W)	-	-
Heavy industrial facilities .....	39 986	38 236	*1 750	3	2	49
Other nonbuilding construction .....	51 230	20 766	30 464	3	6	2
<b>Construction work, n.s.k.</b> .....	<b>129 288</b>	<b>122 570</b>	<b>6 718</b>	<b>2</b>	<b>2</b>	<b>5</b>

<sup>1</sup>Includes data for work done as additions and alterations.

**Table 10. Quarterly Construction Worker Hours and Employment for Establishments With**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers <sup>1</sup>	Hours worked (thousands)	Construction workers <sup>1</sup>	Hours worked (thousands)
		A	B	C	D	E	F	G
	<b>Construction industries and subdividers and developers.....</b>	<b>1 757</b>	<b>17 824</b>	<b>25 320</b>	<b>13 771</b>	<b>4 972</b>	<b>17 266</b>	<b>6 063</b>
<b>15,16, 17</b>	<b>Construction Industries:</b>							
<b>15</b>	<b>General building contractors and operative builders:</b>							
152	General contractors, residential buildings:							
1521	Single-family houses .....	304	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings .....	53	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders .....	105	347	608	217	97	381	168
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses .....	47	633	903	548	189	677	232
1542	Nonresidential buildings, n.e.c. ....	117	1 679	3 620	1 177	638	1 636	845
<b>16</b>	<b>Heavy construction general contractors:</b>							
1611	Highway and street construction .....	77	1 938	3 382	1 390	671	1 981	843
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction.....	7	361	427	(D)	32	133	42
1623	Water, sewer, and utility lines .....	34	1 222	1 375	1 056	352	1 415	360
1629	Heavy construction, n.e.c. ....	40	1 609	2 354	1 466	522	1 719	634
<b>17</b>	<b>Special trade contractors:</b>							
1711	Plumbing, heating, and air conditioning.....	138	1 457	1 589	1 027	275	1 325	346
1721	Painting, paper hanging, and decorating .....	68	222	289	198	63	204	73
1731	Electrical work .....	192	2 712	3 782	1 927	720	1 953	734
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework .....	41	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work .....	60	605	766	473	139	590	188
1743	Terrazzo, tile, marble, and mosaic work .....	3	(D)	(D)	(D)	(D)	(S)	(S)
175	Carpentering and flooring:							
1751	Carpentering .....	95	288	442	172	58	268	100
1752	Floor laying and other floorwork.....	26	105	101	90	*20	106	*23
1761	Roofing and sheet metal work .....	49	436	456	303	77	418	110
1771	Concrete work .....	42	256	378	154	36	304	96
1781	Water well drilling .....	20	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:							
1791	Structural steel erection .....	14	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work .....	10	66	84	77	23	67	20
1794	Excavating and foundation work .....	113	1 126	1 757	998	404	1 109	450
1795	Wrecking and demolition work .....	1	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ....	7	82	85	89	19	79	20
1799	Special trade contractors, n.e.c. ....	67	(S)	(S)	(S)	(S)	(S)	(S)
<b>6552</b>	<b>Subdividers and developers, n.e.c. ....</b>	<b>23</b>	<b>86</b>	<b>86</b>	<b>112</b>	<b>35</b>	<b>76</b>	<b>16</b>

<sup>1</sup>Sum of construction workers during pay periods including 12th of March, May, August, and November.

# Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
22 636	8 053	17 189	6 231	1	1	1	2	2	2	1	2	2	2	15,16, 17
														15
(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	152
(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	1521
														1522
436	205	305	136	10	10	11	16	13	14	11	13	11	14	1531
697	259	596	221	8	6	8	7	8	7	9	9	9	7	154
2 089	1 137	1 763	998	3	3	1	3	6	5	4	2	3	7	1541
														1542
														16
3 456	1 484	902	383	2	1	2	1	2	2	2	1	4	4	1611
														162
577	167	(D)	185	(W)	(W)	-	(W)	(W)	(W)	(W)	(W)	-	(W)	1622
1 483	396	931	266	2	3	5	7	1	3	2	3	3	4	1623
1 680	606	1 553	591	2	2	2	3	2	3	2	2	2	2	1629
														17
1 979	517	1 449	449	4	6	4	8	4	8	4	8	5	9	1711
271	88	188	63	15	14	14	20	16	20	19	21	14	20	1721
3 376	1 052	3 587	1 275	3	4	3	7	6	10	3	5	2	4	1731
														174
(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	1741
691	233	673	204	11	16	9	15	11	18	13	21	12	18	1742
(S)	(S)	(D)	(D)	-	-	-	-	-	-	-	-	-	-	1743
														175
321	130	352	154	16	18	23	32	16	23	15	22	19	24	1751
99	25	112	31	22	29	23	47	23	41	20	36	24	38	1752
506	141	493	127	10	9	7	14	10	13	13	17	13	10	1761
340	139	215	105	9	8	11	17	10	13	9	9	10	8	1771
(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	1781
														179
(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	1791
59	19	52	21	14	12	16	14	14	17	16	16	10	12	1793
1 627	627	721	275	6	7	2	3	7	7	11	13	9	12	1794
(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-	-	1795
78	15	83	30	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	1796
(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	1799
83	18	71	15	26	22	18	16	33	40	30	37	32	39	6552



**Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
15,16, 17	<b>Construction Industries and subdividers and developers -----</b>	12.7	24.1	1.4	115.3	.260	.310	.200	.024	.024
15	<b>Construction Industries:</b>									
152	<b>General building contractors and operative builders:</b>									
1521	General contractors, residential buildings:									
1522	Single-family houses -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	Other residential buildings -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders -----	4.4	20.1	1.8	211.4	.126	.467	.373	.021	.005
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses -----	17.3	24.8	1.4	87.2	.364	.236	.332	.024	.019
1542	Nonresidential buildings, n.e.c. -----	18.1	26.2	2.2	213.3	.155	.225	.483	.009	.011
16	<b>Heavy construction general contractors:</b>									
1611	Highway and street construction -----	29.8	28.4	1.7	125.8	.268	.273	.156	.054	.041
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction -----	64.0	26.2	1.2	89.1	.365	.584	(D)	.014	(D)
1623	Water, sewer, and utility lines -----	45.5	27.9	1.1	126.3	.279	.385	.109	.028	.046
1629	Heavy construction, n.e.c. -----	50.8	23.3	1.5	107.1	.275	.226	.105	.025	.029
17	<b>Special trade contractors:</b>									
1711	Plumbing, heating, and air conditioning -----	13.6	22.7	1.1	103.1	.283	.418	.151	.015	.008
1721	Painting, paper hanging, and decorating -----	3.6	27.7	1.3	80.5	.385	(D)	.110	.019	.003
1731	Electrical work -----	18.0	27.9	1.4	86.4	.411	.342	.025	.025	.014
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work -----	12.9	17.1	1.3	79.4	.277	.472	*.063	.021	.007
1743	Terrazzo, tile, marble, and mosaic work -----	(D)	(D)	(D)	(D)	(D)	(S)	(D)	(S)	(S)
175	Carpentering and flooring:									
1751	Carpentering -----	3.1	20.4	1.5	79.0	.268	.272	.189	.033	.008
1752	Floor laying and other floorwork -----	5.0	18.2	1.0	112.6	.200	.583	(S)	*.032	.002
1761	Roofing and sheet metal work -----	10.9	21.2	1.0	92.4	.282	.415	.046	.017	.006
1771	Concrete work -----	(D)	(D)	1.5	(D)	.182	.325	(D)	(D)	.028
1781	Water well drilling -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:									
1791	Structural steel erection -----	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(D)
1793	Glass and glazing work -----	9.7	22.3	1.3	95.6	.343	.551	-	.016	.033
1794	Excavating and foundation work -----	12.5	23.5	1.6	112.2	.263	.218	.059	.034	.092
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	14.0	30.8	1.0	141.3	.261	(D)	.010	.016	.007
1799	Special trade contractors, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Subdividers and developers, n.e.c. -----	7.7	12.7	1.0	101.2	.260	.222	.217	.040	.008

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982**

[Not applicable]

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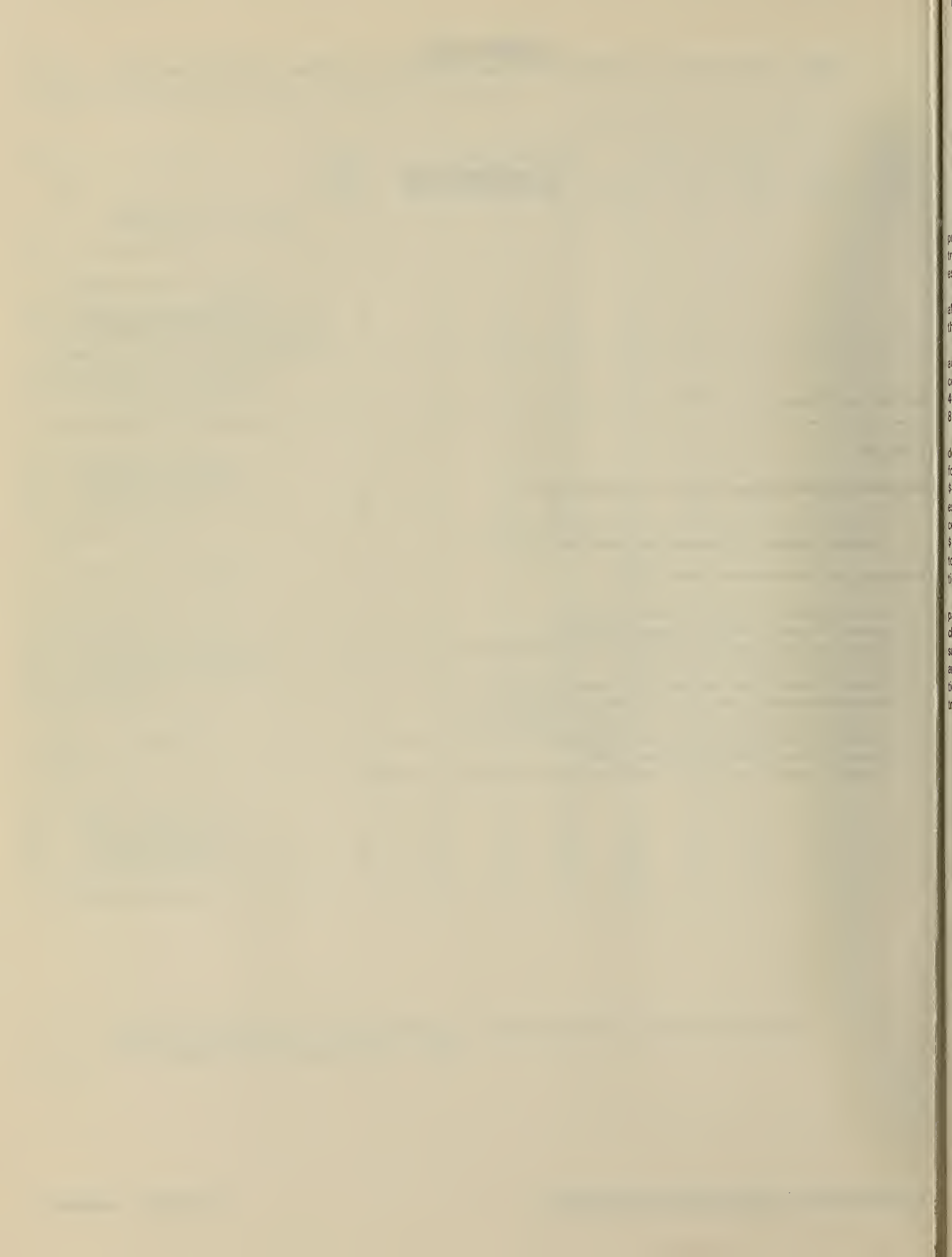
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# SUMMARY OF FINDINGS

During 1982, 136,972 establishments in California operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$48.7 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 90,279 establishments in this State with no payroll accounted for about 11 percent of all business receipts for all construction establishments in California. On the other hand, 46,693 establishments classified as "employers" accounted for 89 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$43.3 billion, of which \$40.6 billion were receipts for construction work. These establishments paid \$11.8 billion for construction work subcontracted to others, leaving net construction receipts of about \$28.8 billion. Value added for these establishments amounted to \$19.6 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in California paid \$10.6 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of

\$674 million were also made for selected power, fuels, and lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in California was 443 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 119 million hours, while hours worked during the third quarter were 131 million hours.

Total payroll for 1982 was \$10.0 million. Payments of \$1.9 billion for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for California are based on a sample of about 20,216 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	<b>1982</b>													
	Construction industries and subdividers and developers ---	136 972	111 379	443 349	48 739 078	90 279	92 145	5 462 742	46 693	19 234	443 349	43 276 336	(W)	(W)
15,16,17	Construction industries <sup>1</sup> -----	133 527	108 010	434 817	46 771 502	87 966	88 958	4 117 722	45 561	19 052	434 817	42 653 780	(W)	(W)
15	General building contractors and operative builders-----	35 609	26 998	97 950	17 070 431	21 680	21 708	1 784 029	13 929	5 290	97 950	15 286 402	1	(W)
16	Heavy construction, general contractors-----	5 507	3 768	90 037	11 419 453	3 008	3 060	243 046	2 499	708	90 037	11 176 407	(W)	(W)
17	Special trade contractors-----	92 411	77 244	246 830	18 281 618	63 278	64 190	2 090 647	29 133	13 054	246 830	16 190 971	1	(W)
1711	Plumbing, heating, and air conditioning --	10 888	7 705	50 766	3 940 871	5 615	5 669	252 516	5 273	2 036	50 766	3 688 355	1	(W)
1731	Electrical work-----	9 856	7 214	45 261	3 617 743	5 495	5 576	202 791	4 361	1 638	45 261	3 414 952	1	(W)
6552	Subdividers and developers, n.e.c. <sup>2</sup> -----	3 442	3 360	8 533	1 968 370	2 313	3 187	1 345 020	1 129	173	8 533	623 350	3	3
	<b>1977</b>													
	Construction industries and subdividers and developers ---	104 032	90 652	424 397	33 412 414	59 341	61 577	2 897 536	44 691	29 075	424 397	30 514 878	(W)	(W)
15,16,17	Construction industries <sup>1</sup> -----	102 078	88 488	418 941	32 232 111	58 115	59 766	2 235 563	43 963	28 722	418 941	29 996 548	(W)	(W)
15	General building contractors and operative builders-----	27 943	23 332	100 981	13 401 233	13 009	13 652	1 154 865	14 934	9 680	100 981	12 246 368	1	1
16	Heavy construction, general contractors-----	4 491	3 448	96 957	7 146 525	2 039	2 100	97 496	2 452	1 348	96 957	7 049 029	(W)	(W)
17	Special trade contractors-----	69 645	61 709	221 903	11 719 958	43 067	44 014	983 202	26 578	17 695	221 903	10 736 756	1	(W)
1711	Plumbing, heating, and air conditioning --	8 541	6 524	42 111	2 421 979	3 616	3 706	110 499	4 925	2 818	42 111	2 311 480	1	1
1731	Electrical work-----	6 780	5 366	32 939	1 712 931	3 214	3 290	73 407	3 566	2 076	32 939	1 639 524	1	1
6552	Subdividers and developers, n.e.c. <sup>2</sup> -----	1 959	2 164	(S)	1 144 706	1 226	1 811	661 973	733	353	(S)	(S)	-	-

<sup>1</sup>For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

<sup>2</sup>For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.



**Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
<b>1982</b>													
The State -----	136 972	111 379	443 349	48 739 078	90 279	92 145	5 462 742	46 693	19 234	443 349	43 276 336	(W)	(W)
\$10,000,000 or more -----	553	88	133 996	21 564 832	20	30	394 105	533	58	133 996	21 170 727	(W)	(W)
\$5,000,000 to \$9,999,999 -----	657	112	37 386	4 550 537	49	77	338 686	608	35	37 386	4 211 851	(W)	(W)
\$2,500,000 to \$4,999,999 -----	1 405	278	44 672	4 914 166	132	214	446 333	1 273	64	44 672	4 467 833	(W)	(W)
\$1,000,000 to \$2,499,999 -----	3 705	1 053	62 447	5 748 197	437	663	677 410	3 268	390	62 447	5 070 787	1	1
\$250,000 to \$999,999 -----	5 480	1 867	51 091	3 823 877	732	904	506 034	4 748	963	51 091	3 317 843	2	2
\$250,000 to \$499,999 -----	8 564	4 358	43 450	2 999 302	1 654	1 802	565 265	6 910	2 556	43 450	2 434 037	2	2
\$100,000 to \$249,999 -----	17 314	12 228	40 635	2 741 497	5 855	6 232	882 626	11 459	5 996	40 635	1 858 871	2	2
\$50,000 to \$99,999 -----	16 572	13 797	15 098	1 176 050	9 558	10 025	661 727	7 014	3 772	15 098	514 323	3	2
\$25,000 to \$49,999 -----	18 577	16 576	6 821	658 122	14 438	14 700	504 609	4 139	1 876	6 821	153 513	4	3
Less than \$25,000 -----	64 142	61 020	7 750	562 497	57 404	57 498	485 947	6 738	3 522	7 750	76 550	2	3
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	21 834	21 939	346 567	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	13 684	13 693	93 407	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	12 676	12 716	36 763	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	9 210	9 150	9 210	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>1977</b>													
The State -----	104 032	90 652	424 397	33 412 414	59 341	61 577	2 897 536	44 691	29 075	424 397	30 514 878	(W)	(W)
\$10,000,000 or more -----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 <sup>2</sup> -----	860	204	142 907	15 433 513	48	80	338 869	812	124	142 907	15 094 644	1	(W)
\$2,500,000 to \$4,999,999 -----	1 051	281	41 738	3 634 700	96	159	328 203	955	122	41 738	3 306 497	1	1
\$1,000,000 to \$2,499,999 -----	3 058	955	64 335	4 700 344	268	378	417 140	2 790	577	64 335	4 283 204	1	1
\$500,000 to \$999,999 -----	4 529	2 179	49 115	3 169 961	493	592	338 685	4 036	1 587	49 115	2 831 276	2	2
\$250,000 to \$499,999 -----	7 253	4 452	46 503	2 517 738	676	845	231 501	6 577	3 607	46 503	2 286 237	2	2
\$100,000 to \$249,999 -----	13 799	11 574	46 541	2 210 186	2 255	2 637	345 314	11 544	8 937	46 541	1 864 872	2	2
\$50,000 to \$99,999 -----	12 482	11 386	18 740	887 371	4 007	4 482	272 560	8 475	6 904	18 740	614 811	3	3
\$25,000 to \$49,999 -----	12 886	12 352	8 206	455 692	8 078	8 459	279 371	4 808	3 893	8 206	176 321	5	4
Less than \$25,000 -----	48 115	47 270	(S)	402 910	43 420	43 945	345 893	(S)	(S)	(S)	(S)	-	-
\$10,000 to \$24,999 -----	17 837	17 254	(S)	281 713	15 078	15 401	235 337	(S)	(S)	(S)	(S)	-	-
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	11 135	11 237	76 017	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	10 253	10 315	29 713	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	6 954	6 992	4 826	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

<sup>2</sup>Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.



**Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and subdividers and developers-----	46 693	443 349	336 885	10 038 911	7 237 465	491 634	40 579 275	28 828 153
15,16, 17	Construction Industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	8 394	34 439	27 875	442 273	330 082	31 487	2 389 711	1 583 021
1522	Other residential buildings-----	900	4 233	3 361	69 888	50 072	5 285	507 644	229 831
1531	Operative builders-----	1 396	14 504	5 133	336 111	86 916	6 855	12 586 798	1 224 747
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	692	11 234	8 627	296 965	219 503	14 086	2 304 475	1 149 336
1542	Nonresidential buildings, n.e.c.-----	2 547	33 540	24 658	864 735	577 772	47 801	6 760 452	2 180 227
16	Heavy construction general contractors:								
1611	Highway and street construction-----	874	12 958	10 593	316 974	242 755	15 359	1 566 812	1 233 752
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	43	1 021	839	28 711	21 560	1 286	119 554	69 995
1623	Water, sewer, and utility lines-----	875	15 421	13 165	354 280	291 303	21 503	1 332 858	1 164 382
1629	Heavy construction, n.e.c.-----	707	60 637	40 465	2 180 808	1 478 193	74 914	6 847 226	5 077 621
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning-----	5 273	50 766	38 130	1 146 423	851 715	53 586	3 591 253	3 249 205
1721	Painting, paper hanging, and decorating-----	2 668	12 771	11 201	214 927	175 680	13 841	564 638	536 338
1731	Electrical work-----	4 361	45 261	35 492	1 141 105	908 418	54 803	3 347 408	3 221 707
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework-----	1 270	7 360	6 488	114 656	96 566	7 041	332 914	315 357
1742	Plastering, drywall, and insulation work-----	2 329	25 112	21 584	492 487	401 914	26 510	1 397 629	1 297 900
1743	Terrazzo, tile, marble, and mosaic work-----	665	3 601	3 004	67 029	51 851	3 880	192 111	188 422
175	Carpentering and flooring:								
1751	Carpentering-----	2 135	13 608	11 420	205 969	165 513	13 447	687 034	616 525
1752	Floor laying and other floorwork-----	876	5 044	3 926	93 467	69 994	5 608	334 512	315 498
1761	Roofing and sheet metal work-----	2 093	18 461	15 225	300 226	224 763	17 532	1 031 856	992 928
1771	Concrete work-----	2 274	19 144	16 122	365 082	287 639	20 572	1 313 708	1 163 104
1781	Water well drilling-----	233	1 596	1 224	23 558	16 975	1 925	97 149	92 506
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	368	6 960	5 594	158 393	122 381	7 443	522 585	488 463
1793	Glass and glazing work-----	574	4 407	3 243	97 463	68 783	5 148	373 732	365 674
1794	Excavating and foundation work-----	1 166	9 121	7 427	183 939	146 082	9 768	746 039	638 265
1795	Wrecking and demolition work-----	131	976	821	15 425	12 580	1 133	52 295	47 114
1796	Installing building equipment, n.e.c.-----	329	5 141	4 112	146 582	114 595	6 431	367 644	349 479
1799	Special trade contractors, n.e.c.-----	2 388	17 501	13 772	261 255	190 588	19 028	847 968	777 396
6552	Subdividers and developers, n.e.c.-----	1 129	8 533	3 383	120 253	33 344	5 359	1364 053	260 125

†Land receipts for SIC 1531 were \$400,745; for SIC 6552 were \$217,817.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
19 628 452	11 278 199	11 751 122	684 686	527 829	5 846 199	424 397	28 640 520	12 825 518	(W)	(W)	1	15,18, 17
												15
997 916	695 749	806 690	24 654	28 875	281 667	42 572	2 695 178	926 143	1	1	2	152
131 883	106 351	277 812	2 807	4 021	32 244	3 985	396 015	102 749	3	3	10	1521
												1522
1 077 662	289 864	1 362 051	21 085	50 846	551 498	23 148	4 344 629	1 243 813	1	1	(W)	1531
863 859	311 717	1 155 139	17 379	14 227	162 069	8 790	1 061 105	282 550	2	1	2	154
1 324 401	904 335	4 580 225	58 623	48 025	466 859	22 486	2 907 553	672 968	1	(W)	1	1541
												1542
												16
780 500	522 828	333 059	88 540	33 721	595 556	14 183	1 083 383	558 177	1	1	1	1611
39 126	32 125	49 559	2 985	2 651	31 988	1 719	114 445	64 491	1	1	(W)	162
791 178	389 500	168 475	57 603	31 487	363 506	17 054	1 269 980	779 165	1	1	1	1622
3 999 987	(D)	1 769 605	96 067	56 047	610 019	64 001	3 957 847	1 913 599	(W)	(W)	(W)	1623
												1629
												17
2 057 293	1 289 013	342 047	52 542	46 929	496 972	42 111	2 272 045	1 255 944	1	(W)	2	1711
414 296	124 143	28 300	9 882	10 054	83 990	12 875	423 194	310 461	2	2	6	1721
1 985 527	1 303 723	125 701	39 874	42 408	425 813	32 939	1 606 896	990 840	1	(W)	1	1731
196 273	122 562	17 557	4 383	4 914	70 918	7 822	314 079	185 714	3	3	8	174
859 077	462 141	99 729	18 544	17 269	158 454	26 868	1 046 208	630 452	1	1	3	1741
112 713	77 709	3 689	2 148	1 977	20 490	3 520	161 113	97 442	4	3	9	1742
												1743
372 182	253 564	70 508	11 953	7 422	80 991	18 291	731 273	398 412	2	2	4	175
167 068	160 347	19 014	4 511	2 453	30 827	6 512	321 434	166 326	3	3	5	1751
												1752
580 943	441 795	38 928	14 329	13 559	141 565	15 794	824 634	421 756	2	1	3	1761
738 846	446 904	150 603	40 114	25 341	268 554	16 634	834 540	449 447	2	1	2	1771
54 869	39 737	4 642	1 629	2 969	50 325	2 190	124 759	76 728	7	7	10	1781
323 143	176 086	34 122	9 968	8 322	70 795	2 632	151 912	96 779	2	1	2	179
202 025	183 528	8 058	6 109	3 640	32 920	3 052	153 463	83 013	4	3	5	1791
498 603	177 439	107 774	67 089	31 171	380 342	7 698	501 434	335 657	3	2	3	1793
43 831	6 514	5 181	6 165	2 697	21 460	821	26 329	24 219	8	5	7	1794
268 450	87 140	18 165	3 921	4 316	30 826	4 607	226 011	172 759	2	1	1	1795
528 785	(D)	70 571	18 344	16 001	154 200	17 537	794 276	469 627	2	2	2	1796
												1799
218 462	83 142	103 928	3 438	16 511	231 727	(S)	(S)	(S)	3	3	2	6552



**Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year .....	46 693	44 691	35 052	33 996	1	1	2	2
Number of establishments in business at end of year .....	45 481	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Proprietors and working partners .....	19 234	29 075	22 944	26 241	2	2	2	2
All employees** .....	443 349	424 397	361 710	301 704	(W)	(W)	1	1
Construction workers:								
March .....	328 571	307 154	272 863	216 584	(W)	(W)	1	1
May .....	333 996	332 671	283 164	232 508	1	1	1	1
August .....	336 704	348 708	304 896	260 095	1	1	1	1
November .....	328 727	341 022	283 631	249 031	1	1	1	1
Average .....	336 885	332 667	289 769	242 779	(W)	(W)	1	1
Other employees:								
March .....	105 325	88 635	70 289	57 156	(W)	1	1	1
Construction worker hours (thousands):								
January to March .....	119 274	(NA)	(NA)	(NA)	(W)	(NA)	(NA)	(NA)
April to June .....	122 174	(NA)	(NA)	(NA)	(W)	(NA)	(NA)	(NA)
July to September .....	130 607	(NA)	(NA)	(NA)	(W)	(NA)	(NA)	(NA)
October to December .....	119 578	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked .....	491 634	(NA)	(NA)	(NA)	(W)	(NA)	(NA)	(NA)
Payroll, all employees .....	10 038 911	6 674 014	4 147 447	2 612 882	(W)	(W)	1	1
Payroll, construction workers .....	7 237 465	4 878 204	3 218 491	2 016 490	(W)	(W)	1	1
Payroll, other employees .....	2 801 446	1 795 810	928 956	596 869	(W)	1	1	1
First quarter payroll, all employees .....	2 336 909	1 473 035	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Employer costs for fringe benefits .....	1 928 342	1 691 635	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Legally required expenditures .....	1 364 446	775 637	(NA)	(NA)	(W)	(W)	(NA)	(NA)
Voluntary expenditures .....	563 895	915 998	(NA)	(NA)	(W)	(W)	(NA)	(NA)
All business receipts .....	43 276 336	30 514 878	17 716 835	11 196 230	(W)	(W)	1	1
Total construction receipts .....	40 579 275	28 640 520	16 773 736	10 638 051	(W)	(W)	1	1
Receipts for work subcontracted in from others .....	9 656 495	7 878 163	3 890 134	2 309 245	1	(W)	1	2
Land receipts <sup>1</sup> .....	618 562	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Other business receipts .....	2 078 498	1 874 359	943 099	559 230	(W)	1	2	2
Net construction receipts† .....	28 828 153	20 372 929	11 472 227	7 372 453	(W)	(W)	1	1
Value added†† .....	19 628 452	12 825 518	7 247 500	4 790 027	(W)	(W)	1	1
Selected payments .....	23 029 322	16 894 229	10 036 228	6 208 441	(W)	(W)	1	1
Materials, components, and supplies <sup>2</sup> .....	10 603 707	8 168 104	4 734 719	2 943 027	(W)	(W)	1	1
Construction work subcontracted to others .....	11 751 122	8 267 591	5 301 509	3 265 833	(W)	1	1	1
Selected power, fuels, and lubricants .....	674 492	458 535	(NA)	(NA)	(W)	1	(NA)	(NA)
Electricity .....	92 721	55 969	(NA)	(NA)	1	1	(NA)	(NA)
Natural gas .....	26 171	30 697	(NA)	(NA)	1	2	(NA)	(NA)
Gasoline and diesel fuel (including gasohol) .....	507 100	307 260	(NA)	(NA)	1	1	(NA)	(NA)
Other, including lubricating oils and greases .....	48 500	64 636	(NA)	(NA)	1	1	(NA)	(NA)
Storage capacity for fuels (thousand gallons) <sup>3</sup> .....	8 570	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures .....	684 686	443 823	(NA)	(NA)	1	1	(NA)	(NA)
For machinery and equipment .....	483 490	359 914	269 678	216 770	1	1	2	1
For structures .....	201 196	83 909	(NA)	(NA)	1	1	(NA)	(NA)
Selected purchased services .....	558 197	417 366	(NA)	(NA)	1	2	(NA)	(NA)
Communication services .....	190 204	135 701	(NA)	(NA)	1	6	(NA)	(NA)
Repairs to structures and related facilities .....	33 191	26 350	(NA)	(NA)	2	3	(NA)	(NA)
Repairs to machinery and equipment .....	334 801	255 315	(NA)	(NA)	1	1	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts .....	40 579 275	28 640 520	16 773 736	10 638 051	(W)	(W)	1	1
Government owned .....	7 095 289	4 530 809	3 756 469	3 284 049	1	(W)	1	1
Privately owned .....	33 483 986	24 109 710	13 017 267	7 354 002	(W)	(W)	1	1

<sup>1</sup>Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

<sup>2</sup>For 1967 and 1972, includes data for power, fuels, and lubricants.

<sup>3</sup>Data were collected only for establishments classified as heavy construction contractors.



**Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	5 648 558	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	527 829	657 419	278 638	205 881	1	2	2	2
New -----	399 559	527 003	221 967	156 385	1	3	2	2
Used -----	128 270	130 416	56 671	49 496	2	2	3	2
Retirements and disposition of depreciable assets -----	330 188	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	5 846 199	3 385 540	2 122 358	(NA)	1	1	2	(NA)
Depreciation charges during year -----	690 898	299 183	198 996	(NA)	1	1	2	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	1 332 074	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	141 573	221 354	80 970	48 338	1	7	6	4
New structures and related facilities -----	120 744	198 842	68 617	37 091	1	7	4	4
Used structures and related facilities -----	20 828	22 512	12 353	11 247	3	7	9	4
Retirements and disposition of depreciable assets -----	88 179	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 385 468	1 097 705	662 622	(NA)	1	2	2	(NA)
Depreciation charges during year -----	120 464	46 928	35 774	(NA)	1	3	3	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	4 316 483	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	386 255	436 065	197 668	157 543	1	1	2	2
New machinery and equipment, including automobiles and trucks -----	278 814	328 161	153 350	119 294	1	1	2	2
New automobiles and trucks, intended primarily for highway use -----	124 737	147 425	(NA)	(NA)	1	1	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	107 441	107 904	44 318	38 249	2	2	3	2
Retirements and disposition of depreciable assets -----	242 008	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	4 460 730	2 287 835	1 459 736	(NA)	1	1	2	(NA)
Depreciation charges during year -----	570 434	252 255	163 222	(NA)	1	1	2	(NA)

**Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
<b>All establishments:</b>		
Number .....	46 693	1
Total construction receipts .....	40 579 275	(W)
<b>Establishments with inventories:</b>		
Number .....	10 501	3
Total construction receipts .....	17 652 621	(W)
<b>Inventories<sup>1</sup>:</b>		
End of 1982, total .....	907 411	1
Value for establishments with LIFO reserve .....	48 561	15
Amount of LIFO reserve .....	23 443	13
Value for establishments with no LIFO reserve .....	858 850	1
End of 1981, total .....	811 970	1
Value for establishments with LIFO reserve .....	34 316	7
Amount of LIFO reserve .....	16 177	14
Value for establishments with no LIFO reserve .....	777 654	1
<b>Establishments with no inventories:</b>		
Number .....	36 192	1
Total construction receipts .....	22 926 654	(W)

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Establishments with an average of—									
	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1982</b>										
Number of establishments .....	46 693	29 566	8 287	5 057	2 736	675	270	62	23	16
All employees** .....	443 349	57 394	54 797	67 918	81 738	46 350	40 490	20 722	15 924	58 015
Payroll, all employees .....	10 038 911	664 719	874 375	1 315 200	1 838 974	1 261 372	1 109 261	570 506	389 631	2 014 871
Construction worker hours (thousands) .....	491 634	66 606	53 147	67 819	86 375	55 174	48 604	24 129	18 681	71 095
All business receipts .....	43 276 336	3 632 685	3 686 874	5 407 690	8 047 195	5 510 189	4 807 851	12 183 851	(D)	(D)
Total construction receipts .....	40 579 275	3 493 804	3 557 740	5 201 916	7 695 809	5 254 242	4 656 914	2 857 173	1 790 679	6 070 998
Net construction receipts† .....	28 828 153	2 734 920	2 812 647	3 930 606	5 280 893	3 624 512	2 912 834	1 840 141	1 149 495	4 542 103
Value added†† .....	19 628 452	1 628 868	1 767 136	2 559 217	3 462 776	2 538 710	1 905 878	1 357 466	834 359	3 574 040
Payments for materials, components, supplies, and fuels ..	11 278 199	1 161 098	1 117 849	1 483 143	2 033 017	1 282 993	1 118 906	519 550	399 639	2 162 003
Payments for construction work subcontracted to others ..	11 751 122	758 883	745 092	1 271 309	2 414 915	1 629 730	1 744 080	1 017 032	641 184	1 528 895
Rental payments for machinery, equipment, and structures .....	684 686	54 649	74 268	103 299	143 570	99 760	92 623	25 587	27 083	63 844
Capital expenditures, other than land .....	527 829	54 734	53 279	76 312	128 210	69 898	58 193	26 552	16 246	44 404
End-of-year gross book value of depreciable assets .....	5 846 199	796 003	673 742	882 190	1 168 281	781 578	645 439	297 415	214 579	386 970
<b>1977</b>										
All employees** .....	424 397	54 477	56 385	64 245	76 205	49 472	33 946	24 302	12 997	52 368
Total construction receipts .....	28 640 520	3 067 409	3 053 477	3 897 577	5 533 880	3 879 703	2 977 626	2 052 184	1 062 860	3 115 804
Value added†† .....	12 825 518	1 353 493	1 418 927	1 762 730	2 501 766	1 706 230	1 225 178	735 815	489 183	1 632 196
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	(W)	1	2	1	1	(W)	(W)	(W)	(W)	(W)
Net construction receipts† .....	(W)	2	2	1	(W)	(W)	(W)	(W)	(W)	(W)
Capital expenditures, other than land .....	1	4	4	3	1	(W)	(W)	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

**Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Establishments with all business receipts of—									
	Total	Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$10,000,000 or more
<b>1982</b>										
Number of establishments .....	46 693	6 738	4 139	7 014	11 459	6 910	4 748	3 268	1 273	533
All employees** .....	443 349	7 750	6 821	15 098	40 635	43 450	51 091	62 447	44 672	133 996
Payroll, all employees .....	10 038 911	21 899	40 135	124 766	466 070	645 709	908 468	1 354 327	1 138 764	4 310 517
Construction worker hours (thousands) .....	491 634	5 863	5 577	12 637	47 528	42 294	50 974	65 842	50 607	184 775
All business receipts .....	43 276 336	76 550	153 513	514 323	1 858 871	2 434 037	3 317 643	5 070 787	4 467 833	21 170 727
Total construction receipts .....	40 579 275	74 225	148 562	501 458	1 808 733	2 372 616	3 197 857	4 869 776	4 295 909	19 255 422
Net construction receipts† .....	28 828 153	63 455	128 919	441 154	1 578 838	2 011 646	2 651 381	3 919 055	3 313 463	11 652 485
Value added†† .....	19 628 452	37 594	77 272	262 253	952 982	1 239 311	1 671 729	2 534 547	2 210 351	8 713 398
Payments for materials, components, supplies, and fuels .....	11 278 199	27 069	54 221	185 597	655 549	810 017	1 056 125	1 518 245	1 214 099	4 721 655
Payments for construction work subcontracted to others ..	11 751 122	10 770	19 643	60 303	229 895	360 969	546 476	950 720	982 446	7 402 937
Rental payments for machinery, equipment, and structures .....	684 686	1 462	3 137	9 413	31 959	42 861	66 830	97 909	93 072	255 930
Capital expenditures, other than land .....	527 829	818	2 593	10 218	31 536	38 213	49 322	72 356	68 032	180 188
End-of-year gross book value of depreciable assets .....	5 846 199	24 273	44 749	135 729	425 075	473 225	588 772	936 787	642 240	1 888 938
<b>1977</b>										
All employees** .....	424 397	(S)	8 206	18 740	46 541	46 503	49 115	64 335	41 738	(NA)
Total construction receipts .....	28 640 520	(S)	173 046	599 525	1 808 255	2 199 192	2 717 299	4 118 094	3 169 878	(NA)
Value added†† .....	12 825 518	(S)	94 466	314 233	935 816	1 098 330	1 367 812	2 026 054	1 471 805	(NA)
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	(W)	2	4	3	2	2	2	1	(W)	(W)
Net construction receipts† .....	(W)	3	2	2	2	2	2	1	(W)	(W)
Capital expenditures, other than land .....	1	12	11	8	4	5	4	2	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

\*Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.



**Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction <sup>1</sup>	Maintenance and repair			
	A	B	C	A	B	C
<b>1982</b>						
<b>Total construction receipts†</b>	<b>40 579 275</b>	<b>34 939 155</b>	<b>5 640 120</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>
<b>Building construction</b>	<b>26 212 062</b>	<b>22 353 169</b>	<b>3 858 893</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>
Single-family houses	7 444 788	6 255 720	1 189 068	1	1	1
Single-family houses, detached	5 681 326	4 670 804	1 010 522	1	1	2
Single-family houses, attached	1 763 462	1 584 916	178 546	1	1	3
Apartment buildings with two or more apartments	1 218 502	982 402	236 100	1	1	2
Other residential buildings	665 459	565 384	100 074	1	1	2
Office and bank buildings	6 489 419	5 794 079	695 340	(W)	(W)	1
Office buildings	5 581 673	5 029 330	552 342	(W)	(W)	1
Bank buildings and other financial institutions	907 746	764 748	142 997	1	1	2
Farm buildings	83 389	71 286	12 103	7	6	12
Industrial buildings and warehouses	5 452 436	4 631 099	821 337	(W)	(W)	1
Industrial buildings	4 642 155	3 943 846	698 308	1	1	1
Warehouses	810 280	687 252	123 028	1	1	2
Stores, restaurants, public garages, and automobile service stations	2 247 615	1 848 243	399 372	1	1	2
Religious buildings	177 780	136 443	41 336	3	3	4
Educational buildings	585 768	476 346	109 422	2	2	2
Hospitals and institutional buildings	1 339 389	1 172 508	166 881	1	1	2
Amusement, social, and recreational buildings	229 298	203 328	25 970	2	3	5
Other nonresidential buildings	278 212	216 327	61 885	3	3	5
<b>Nonbuilding construction</b>	<b>11 971 562</b>	<b>10 639 832</b>	<b>1 331 729</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>
Highways, streets, and related facilities	1 825 916	1 349 833	476 082	1	1	2
Outdoor swimming pools	57 846	47 961	9 884	9	9	18
Parking areas	77 789	62 907	14 882	4	4	10
Fencing	60 505	52 386	8 119	13	13	10
Recreational facilities	21 810	18 535	3 275	14	17	19
Bridges, tunnels, and elevated highways	262 875	216 547	46 327	1	1	2
Dam and reservoir construction	137 639	121 111	16 528	2	2	7
Marine construction	134 505	107 299	27 206	2	2	4
Harbor and port facilities	100 199	61 207	38 992	2	2	4
Conservation and development construction	218 693	192 361	26 332	4	3	12
Power and communication transmission lines, towers, and related facilities	711 373	632 830	78 542	1	1	2
Sewers, water mains, and related facilities	1 037 864	874 297	163 566	1	2	2
Sewers, sewer lines, and related facilities	540 387	476 471	63 915	2	2	3
Water mains and related facilities	497 476	397 825	99 651	2	2	3
Pipeline, other than sewer or water lines	338 630	265 995	72 635	1	2	1
Sewage treatment and water treatment plants	523 475	496 697	26 777	1	(W)	3
Sewage treatment plants	344 531	328 422	16 108	(W)	(W)	2
Water treatment plants	178 944	168 274	10 669	1	1	6
Mass transit construction	611 594	583 017	28 577	(W)	(W)	3
Subways	578 709	(D)	(D)	(W)	-	-
Railroads	32 884	(D)	(D)	2	-	-
Heavy industrial facilities	5 257 984	5 105 377	152 606	(W)	(W)	2
Blast furnaces, petroleum refineries, and chemical complexes	1 972 518	1 858 665	113 853	(W)	(W)	2
Power plants	3 285 466	3 246 712	38 753	3	2	4
Water storage facilities	8 616	6 346	2 269	16	22	2
Ships	18 567	8 960	9 606	17	27	10
Oilfields	254 671	212 002	42 668	1	(W)	3
Other nonbuilding construction	311 011	224 164	86 856	3	3	10
<b>Construction work, n.s.k.</b>	<b>2 395 651</b>	<b>1 946 153</b>	<b>449 496</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>1977</b>						
<b>Total construction receipts†</b>	<b>28 640 520</b>	<b>25 328 774</b>	<b>3 311 746</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>
<b>Building construction</b>	<b>19 710 009</b>	<b>17 204 338</b>	<b>2 505 671</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>
Single-family houses	9 821 949	8 852 633	969 316	1	1	2
Apartment buildings with two or more apartments	1 572 561	1 373 662	198 899	1	1	2
Other residential buildings	359 655	294 121	65 534	1	1	3
Office and bank buildings	1 674 315	1 404 753	269 562	1	1	2
Industrial buildings and warehouses	2 733 108	2 340 884	392 224	1	1	2
Stores, restaurants, public garages, and automobile service stations	1 358 315	1 142 161	216 154	1	1	3
Religious buildings	134 595	103 748	30 847	5	6	4
Educational buildings	841 701	733 195	108 506	1	1	2
Hospitals and institutional buildings	700 589	598 253	102 336	1	1	2
Amusement, social, and recreational buildings	177 320	159 645	17 675	3	4	4
Other nonresidential buildings	335 901	201 284	134 617	3	4	2
<b>Nonbuilding construction</b>	<b>7 774 885</b>	<b>7 119 014</b>	<b>655 871</b>	<b>(W)</b>	<b>(W)</b>	<b>1</b>
Highways, streets, and related facilities	1 202 990	981 763	221 227	1	1	2
Outdoor swimming pools	255 486	240 987	14 499	3	4	8
Bridges, tunnels, and elevated highways	177 634	167 765	9 869	1	1	6
Dam and reservoir construction	128 481	125 783	2 698	(W)	(W)	8
Conservation and development construction	222 269	190 228	32 041	5	5	11
Power and communication transmission lines, towers, and related facilities	220 602	188 897	31 705	4	3	11
Sewers, water mains, and related facilities	898 140	830 662	67 478	1	1	4
Pipeline, other than sewer or water lines	488 773	448 804	39 969	1	1	3
Sewage treatment and water treatment plants	490 253	468 008	22 255	(W)	(W)	3
Blast furnaces, petroleum refineries, and chemical complexes	1 089 149	1 022 927	76 222	(W)	(W)	1
Power plants	1 726 296	1 712 708	13 588	(W)	(W)	13
Other nonbuilding construction	864 802	740 482	124 320	1	1	3
<b>Construction work, n.s.k.</b>	<b>1 155 834</b>	<b>1 004 402</b>	<b>151 432</b>	<b>2</b>	<b>2</b>	<b>2</b>

<sup>1</sup>Includes data for work done as additions and alterations.



**Table 10. Quarterly Construction Worker Hours and Employment for Establishments With**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers <sup>1</sup>	Hours worked (thousands)	Construction workers <sup>1</sup>	Hours worked (thousands)
		A	B	C	D	E	F	G
	<b>Construction Industries and subdividers and developers</b> .....	46 693	336 885	491 634	328 571	119 274	333 996	122 174
<b>15,16, 17</b>	<b>Construction Industries:</b>							
<b>15</b>	<b>General building contractors and operative builders:</b>							
152	General contractors, residential buildings:							
1521	Single-family houses .....	8 394	27 875	31 487	26 605	7 846	27 782	8 165
1522	Other residential buildings .....	900	3 361	5 285	3 401	1 355	3 127	1 281
1531	Operative builders .....	1 396	5 133	6 855	4 963	1 737	5 039	1 761
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses .....	692	8 627	14 086	8 847	3 473	8 613	3 618
1542	Nonresidential buildings, n.e.c. ....	2 547	24 658	47 801	24 568	9 403	24 183	9 624
<b>16</b>	<b>Heavy construction general contractors:</b>							
1611	Highway and street construction .....	874	10 593	15 359	8 247	2 817	11 045	4 000
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction .....	43	839	1 286	671	262	752	286
1623	Water, sewer, and utility lines .....	875	13 165	21 503	12 233	4 799	13 647	5 741
1629	Heavy construction, n.e.c. ....	707	40 465	74 914	46 437	22 230	38 610	18 044
<b>17</b>	<b>Special trade contractors:</b>							
1711	Plumbing, heating, and air conditioning.....	5 273	38 130	53 586	36 730	13 135	36 841	13 323
1721	Painting, paper hanging, and decorating ....	2 668	11 201	13 841	10 209	3 258	11 267	3 636
1731	Electrical work .....	4 361	35 492	54 803	35 423	13 775	34 939	13 920
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework .....	1 270	6 488	7 041	6 108	1 690	6 908	1 939
1742	Plastering, drywall, and insulation work ....	2 329	21 584	26 510	21 158	6 670	21 823	6 826
1743	Terrazzo, tile, marble, and mosaic work ....	665	3 004	3 880	2 981	969	3 004	1 013
175	Carpentering and flooring:							
1751	Carpentering .....	2 135	11 420	13 447	11 201	3 260	11 047	3 446
1752	Floor laying and other floorwork .....	876	3 926	5 608	3 923	1 403	3 993	1 420
1761	Roofing and sheet metal work .....	2 093	15 225	17 532	13 514	3 815	14 158	4 176
1771	Concrete work .....	2 274	16 122	20 572	14 122	4 316	16 023	5 189
1781	Water well drilling .....	233	1 224	1 925	1 236	465	1 309	501
179	Miscellaneous special trade contractors:							
1791	Structural steel erection .....	368	5 594	7 443	5 553	1 816	5 459	1 849
1793	Glass and glazing work .....	574	3 243	5 148	3 133	1 268	3 209	1 295
1794	Excavating and foundation work .....	1 166	7 427	9 768	6 698	2 050	7 955	2 669
1795	Wrecking and demolition work .....	131	821	1 133	772	249	792	265
1796	Installing building equipment, n.e.c. ....	329	4 112	6 431	4 025	1 578	4 214	1 682
1799	Special trade contractors, n.e.c. ....	2 353	13 772	19 926	12 285	4 431	14 801	5 070
<b>6552</b>	<b>Subdividers and developers, n.e.c. ....</b>	<b>1 129</b>	<b>3 383</b>	<b>5 359</b>	<b>2 925</b>	<b>3 383</b>	<b>3 456</b>	<b>1 427</b>

<sup>1</sup>Sum of construction workers during pay periods including 12th of March, May, August, and November.

Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
336 704	130 595	328 727	119 578	(W)	(W)	(W)	(W)	1	(W)	1	(W)	1	1	15,16, 17
														15
28 113 3 178	8 175 1 275	25 200 3 304	7 299 1 372	2 4	2 4	2 6	2 7	2 3	2 4	2 3	2 4	2 7	3 8	152 1521 1522
5 139	1 728	4 904	1 628	2	2	3	4	2	3	2	3	2	3	1531
8 703 25 537	3 636 19 467	8 091 23 150	3 358 9 305	2 1	1 (W)	2 1	2 1	2 1	2 1	3 1	2 (W)	3 1	2 1	154 1541 1542
														16
12 248	4 782	10 573	3 759	1	1	1	2	1	1	1	1	1	2	1611
														162
979 14 142 30 963	387 6 045 13 737	937 12 294 45 623	349 4 916 20 902	1 1 (W)	1 1 (W)	2 1 (W)	2 1 (W)	3 1 (W)	2 1 (W)	1 1 (W)	1 1 (W)	1 1 (W)	1 1 (W)	1622 1623 1629
														17
40 822	14 009	36 107	13 118	1	1	1	1	1	1	1	1	1	1	1711
11 718	3 752	10 269	3 193	2	2	2	3	2	3	3	3	2	3	1721
35 543	13 782	34 370	13 324	1	1	1	1	1	1	1	1	1	1	1731
														174
6 499 21 566 2 858	1 854 6 720 963	5 654 20 666 2 853	1 557 6 293 933	3 2 4	3 1 4	4 2 4	5 1 5	4 2 4	4 1 5	3 2 4	5 1 5	4 2 6	5 2 6	1741 1742 1743
11 493 3 711	3 419 1 376	10 929 3 754	3 321 1 408	2 3	2 3	2 4	3 4	3 4	4 4	2 4	3 5	3 4	4 5	175 1751 1752
15 464	4 666	16 884	4 874	2	2	2	3	2	3	2	2	2	3	1761
17 650	6 053	15 640	5 013	2	2	2	2	3	2	2	2	3	3	1771
1 227	518	1 043	440	7	7	8	8	9	9	7	9	6	10	1781
														179
6 018 3 212 7 705 805 4 167 13 744	2 013 1 293 2 721 299 1 597 4 956	5 260 3 192 6 892 869 3 977 12 866	1 764 1 292 2 326 317 1 572 4 570	2 4 3 9 2 3	2 4 2 7 2 2	2 4 3 7 2 3	2 5 3 8 2 3	2 4 3 8 2 4	2 5 3 8 2 3	3 4 3 10 2 2	2 5 3 8 3 3	2 4 3 12 2 3	2 5 3 13 2 3	1791 1793 1794 1795 1796 1799
3 502	1 372	3 428	1 365	4	4	4	5	4	5	5	5	4	5	6552

**Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	<b>Construction Industries and subdividers and developers -----</b>	<b>9.5</b>	<b>22.6</b>	<b>1.5</b>	<b>120.5</b>	<b>.247</b>	<b>.278</b>	<b>.290</b>	<b>.013</b>	<b>.017</b>
15,16, 17	<b>Construction Industries:</b>									
15	<b>General building contractors and operative builders:</b>									
152	General contractors, residential buildings:									
1521	Single-family houses -----	4.1	12.8	1.1	85.7	.185	.291	.338	.012	.010
1522	Other residential buildings -----	4.7	16.5	1.6	151.0	.138	.209	.547	.008	.006
1531	Operative builders -----	10.4	23.2	1.3	504.0	.130	.112	.527	.020	.008
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses -----	16.2	26.4	1.6	267.1	.129	.135	.501	.006	.008
1542	Nonresidential buildings, n.e.c. -----	13.2	25.8	1.9	274.2	.128	.134	.678	.007	.009
16	<b>Heavy construction general contractors:</b>									
1611	Highway and street construction -----	14.8	24.5	1.4	147.9	.202	.334	.213	.022	.057
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction -----	23.7	28.1	1.5	142.5	.240	.269	.415	.022	.025
1623	Water, sewer, and utility lines -----	17.6	23.0	1.6	101.2	.266	.292	.126	.024	.043
1629	Heavy construction, n.e.c. -----	85.8	36.0	1.9	169.2	.318	(D)	.258	.008	.014
17	<b>Special trade contractors:</b>									
1711	Plumbing, heating, and air conditioning -----	9.6	22.6	1.4	94.2	.319	.359	.095	.013	.015
1721	Painting, paper hanging, and decorating -----	4.8	16.8	1.2	50.4	.381	.220	.050	.018	.018
1731	Electrical work -----	10.4	25.2	1.5	94.3	.341	.389	.038	.013	.012
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework -----	5.8	15.6	1.1	51.3	.344	.368	.053	.015	.013
1742	Plastering, drywall, and insulation work -----	10.8	19.6	1.2	64.8	.352	.331	.071	.012	.013
1743	Terrazzo, tile, marble, and mosaic work -----	5.4	18.6	1.3	64.0	.349	.405	.019	.010	.011
175	Carpentering and flooring:									
1751	Carpentering -----	6.4	15.1	1.2	60.2	.300	.369	.103	.011	.017
1752	Floor laying and other floorwork -----	5.8	18.5	1.4	85.2	.279	.479	.057	.007	.013
1761	Roofing and sheet metal work -----	8.8	16.3	1.2	67.8	.291	.428	.038	.013	.014
1771	Concrete work -----	8.4	19.1	1.3	81.5	.278	.340	.115	.019	.031
1781	Water well drilling -----	6.8	14.8	1.6	79.4	.242	.409	.048	.031	.017
179	Miscellaneous special trade contractors:									
1791	Structural steel erection -----	18.9	22.8	1.3	93.4	.303	.337	.065	.016	.019
1793	Glass and glazing work -----	7.7	22.1	1.6	115.2	.261	.491	.022	.010	.016
1794	Excavating and foundation work -----	7.8	20.2	1.3	100.4	.247	.238	.144	.042	.090
1795	Wrecking and demolition work -----	7.5	15.8	1.4	63.7	.295	.125	.099	.052	.118
1796	Installing building equipment, n.e.c. -----	15.6	28.5	1.6	89.4	.399	.237	.049	.012	.011
1799	Special trade contractors, n.e.c. -----	7.3	14.9	1.4	61.6	.308	(D)	.083	.019	.022
6552	<b>Subdividers and developers, n.e.c. -----</b>	<b>7.6</b>	<b>14.1</b>	<b>1.6</b>	<b>107.6</b>	<b>.330</b>	<b>.228</b>	<b>.285</b>	<b>.045</b>	<b>.009</b>



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>LOS ANGELES-LONG BEACH-ANAHEIM SCSA</b>											
	Construction Industries and subdividers and developers	19 365	201 072	4 476 004	17 828 107	12 086 796	8 365 516	4 721 138	5 741 311	231 900	(W)	(W)
15, 16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 677	13 063	176 607	974 236	648 139	435 750	292 225	326 098	10 943	3	3
1522	Other residential buildings	344	1 599	24 485	173 023	70 897	39 516	34 865	102 126	1 551	6	6
1531	Operative builders	613	8 037	193 304	1 499 814	662 499	609 420	139 667	837 315	38 099	2	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	331	5 140	123 710	853 708	312 572	208 983	115 912	541 136	7 043	4	2
1542	Nonresidential buildings, n.e.c.	1 053	14 844	382 915	3 197 436	886 478	536 904	372 975	2 310 958	17 640	2	1
16	Heavy construction general contractors:											
1611	Highway and street construction	266	4 725	116 210	604 588	476 687	317 787	205 685	127 901	9 130	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	16	289	10 390	34 527	25 532	19 478	6 101	8 995	(D)	5	6
1623	Water, sewer, and utility lines	402	8 417	186 051	631 369	564 207	399 854	168 535	67 162	13 996	2	2
1629	Heavy construction, n.e.c.	205	24 527	841 394	2 174 686	1 387 851	1 262 450	(D)	786 835	15 294	(W)	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	2 544	23 866	524 026	1 697 806	1 534 875	932 259	(D)	162 931	20 294	2	1
1721	Painting, paper hanging, and decorating	1 110	6 081	101 121	269 550	256 524	197 728	59 203	13 026	4 367	4	3
1731	Electrical work	2 062	21 001	525 088	1 476 843	1 423 937	899 855	554 906	52 906	22 043	2	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	617	3 617	56 960	170 687	164 847	104 096	61 538	5 840	1 814	6	4
1742	Plastering, drywall, and insulation work	934	11 430	231 865	677 307	627 580	411 096	229 616	49 728	6 023	3	2
1743	Terrazzo, tile, marble, and mosaic work	246	1 455	29 203	84 550	82 409	49 406	34 165	2 141	705	6	5
175	Carpentering and flooring:											
1751	Carpentering	941	7 169	107 099	349 604	310 260	193 366	122 260	39 343	4 274	3	3
1752	Floor laying and other floorwork	371	2 285	45 719	161 517	152 490	79 140	77 539	9 027	951	6	5
1761	Roofing and sheet metal work	871	7 897	130 090	477 386	462 032	274 277	193 711	15 355	6 520	4	2
1771	Concrete work	1 007	9 911	197 990	743 683	649 732	417 635	246 117	93 951	13 991	3	2
1781	Water well drilling	47	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	186	3 090	66 096	215 654	198 608	127 819	75 717	17 046	3 784	3	2
1793	Glass and glazing work	244	2 106	47 192	169 890	164 536	91 174	82 264	5 354	1 282	7	5
1794	Excavating and foundation work	387	3 204	64 324	272 182	233 611	182 763	59 276	38 572	8 675	4	2
1795	Wrecking and demolition work	66	512	7 767	27 428	24 910	23 040	2 983	2 518	453	9	8
1796	Installing building equipment, n.e.c.	152	2 488	71 735	192 443	184 964	141 010	45 796	7 479	2 284	2	1
1799	Special trade contractors, n.e.c.	1 115	7 932	118 379	389 521	352 075	231 293	140 080	37 446	7 246	6	3
6552	Subdividers and developers, n.e.c.	559	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
	<b>SAN FRANCISCO-OAKLAND-SAN JOSE SCSA</b>											
	Construction Industries and subdividers and developers	9 412	130 087	3 507 137	13 811 365	10 109 279	7 013 440	3 954 794	3 702 086	153 885	1	(W)
15, 16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	1 802	8 115	120 335	586 636	374 189	232 659	151 075	212 447	7 392	4	3
1522	Other residential buildings	221	1 021	19 888	169 454	68 379	34 494	36 025	101 075	*1 373	7	5
1531	Operative builders	290	3 063	73 125	556 692	320 634	284 674	71 101	236 058	4 115	3	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	126	3 570	114 996	1 077 909	645 716	530 453	123 395	432 193	4 336	2	1
1542	Nonresidential buildings, n.e.c.	554	9 883	282 973	2 007 126	675 632	373 060	318 868	1 331 494	17 938	2	1

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>SAN FRANCISCO-OAKLAND-SAN JOSE SMSA—Con.</b>											
15,16,17	<b>Construction Industries—Con.</b>											
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction -----	151	2 970	77 161	396 513	287 337	179 388	114 887	109 176	9 132	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	6	162	2 925	13 147	8 477	3 961	(D)	4 670	(D)	(W)	(W)
1623	Water, sewer, and utility lines -----	146	2 868	77 625	360 799	304 909	204 760	(D)	55 891	8 354	3	2
1629	Heavy construction, n.e.c. -----	142	30 829	1 197 845	4 045 926	3 171 676	2 377 800	(D)	874 250	32 379	(W)	(W)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning -----	976	13 306	328 478	977 497	864 625	595 302	313 642	112 872	13 901	1	1
1721	Painting, paper hanging, and decorating -----	675	3 883	75 301	180 980	172 070	136 091	37 002	8 910	2 565	4	3
1731	Electrical work -----	836	14 639	414 482	1 241 912	1 202 758	722 646	495 612	39 154	11 582	4	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	208	2 102	32 608	81 054	72 101	43 035	(D)	8 954	1 518	5	6
1742	Plastering, drywall, and insulation work -----	410	5 762	141 041	359 846	332 954	222 166	114 862	26 892	4 754	2	2
1743	Terrazzo, tile, marble, and mosaic work -----	157	940	19 674	49 904	49 009	30 223	19 036	895	569	8	9
175	Carpentering and flooring:											
1751	Carpentering -----	430	2 966	52 419	173 866	159 930	96 771	64 417	13 936	1 097	5	4
1752	Floor laying and other floorwork-----	221	1 582	30 010	105 491	98 321	55 089	46 613	7 171	1 187	6	7
1761	Roofing and sheet metal work -----	504	5 431	93 393	285 212	272 833	163 627	121 291	12 379	3 817	4	3
1771	Concrete work -----	403	4 002	85 361	268 873	238 818	156 962	84 957	30 055	4 437	4	3
1781	Water well drilling -----	9	52	913	2 991	2 847	2 029	1 106	144	(D)	27	29
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	50	1 733	41 957	138 218	130 954	81 403	51 824	7 264	2 107	2	1
1793	Glass and glazing work -----	128	1 071	24 702	106 503	105 007	58 245	49 364	1 496	1 251	7	4
1794	Excavating and foundation work-----	213	2 123	48 312	205 909	168 662	131 034	48 650	37 247	8 737	4	3
1795	Wrecking and demolition work -----	25	229	4 863	15 522	13 407	12 961	1 940	2 115	1 415	2	1
1796	Installing building equipment, n.e.c.-----	76	1 426	45 650	102 215	95 274	72 316	25 348	6 941	1 332	4	3
1799	Special trade contractors, n.e.c.-----	460	5 223	86 639	259 290	242 116	180 848	73 122	17 173	4 701	3	4
6552	Subdividers and developers, n.e.c. ---	197	1 139	14 465	41 884	30 647	31 448	8 995	11 237	3 512	9	10
	<b>ANAHEIM-SANTA ANA-GARDEN GROVE SMSA</b>											
	<b>Construction Industries and subdividers and developers</b>	4 276	44 796	926 865	4 179 140	2 789 020	1 883 872	1 029 865	1 390 120	60 292	1	1
15,16,17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	505	2 610	37 778	(D)	(D)	87 370	(D)	(D)	1 923	8	-
1522	Other residential buildings -----	66	283	4 498	49 514	20 293	*6 177	14 320	29 221	606	11	16
1531	Operative builders -----	202	3 692	92 661	657 371	(D)	(D)	49 568	(D)	25 092	2	-
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	74	643	15 816	144 715	47 975	33 584	16 124	96 740	452	9	7
1542	Nonresidential buildings, n.e.c. -----	321	3 769	97 667	876 155	265 679	181 492	98 855	610 477	5 817	5	3
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction -----	46	925	23 774	123 767	91 677	51 712	(D)	32 090	1 839	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines -----	86	1 567	24 652	89 233	78 217	48 008	30 626	11 016	1 330	3	6
1629	Heavy construction, n.e.c. -----	51	2 355	71 253	231 551	157 345	99 704	59 656	74 206	976	1	1



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—
		A	B	C	D	E	F	G	H	I	B E
	<b>ANAHEIM-SANTA ANA-GARDEN GROVE SMSA—Con.</b>										
15,16,17	<b>Construction Industries—Con.</b>										
	<b>Special trade contractors:</b>										
1711	Plumbing, heating, and air conditioning -----	509	5 578	118 909	425 293	366 241	214 619	158 417	59 052	4 006	3 3
1721	Painting, paper hanging, and decorating -----	262	1 778	23 756	65 121	63 147	48 240	(D)	1 974	519	6 7
1731	Electrical work -----	395	5 745	126 471	318 424	310 409	203 416	116 275	8 015	4 162	2 2
174	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework -----	151	871	15 288	41 226	39 932	25 430	14 572	1 294	477	11 11
1742	Plastering, drywall, and insulation work -----	214	2 991	52 255	170 225	159 304	97 034	63 368	10 921	1 646	6 3
1743	Terrazzo, tile, marble, and mosaic work -----	57	299	6 342	18 569	18 265	(D)	(D)	304	*167	10 5
175	Carpentering and flooring: Carpentering -----	230	2 272	37 255	117 482	106 765	62 166	47 823	10 717	939	4 4
1752	Floor laying and other floorwork -----	97	539	11 409	47 722	45 322	20 177	26 312	2 400	212	8 5
1761	Roofing and sheet metal work -----	147	1 452	22 356	72 787	70 449	40 502	32 376	2 338	1 574	7 6
1771	Concrete work -----	242	2 949	56 017	204 597	169 287	107 355	63 805	35 310	3 107	7 5
1781	Water well drilling -----	6	55	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2 -
179	Miscellaneous special trade contractors:										
1791	Structural steel erection -----	35	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	- -
1793	Glass and glazing work -----	70	479	12 072	50 265	49 125	24 258	26 286	1 140	316	7 6
1794	Excavating and foundation work -----	117	1 008	21 204	103 621	88 027	70 013	19 835	15 595	2 024	8 4
1795	Wrecking and demolition work -----	*9	*65	(D)	3 797	*3 428	2 971	*460	369	(D)	44 41
1796	Installing building equipment, n.e.c. -----	34	198	4 785	13 180	12 285	9 401	2 961	895	(D)	9 7
1799	Special trade contractors, n.e.c. -----	195	1 198	22 683	75 335	68 061	44 664	26 112	7 274	1 111	8 7
6552	Subdividers and developers, n.e.c. -----	160	952	13 786	44 954	22 492	13 900	11 225	22 462	761	6 8
	<b>LOS ANGELES-LONG BEACH SMSA</b>										
	<b>Construction Industries and subdividers and developers</b>	10 507	124 167	3 014 899	11 357 782	7 600 192	5 447 822	2 964 138	3 757 590	127 541	1 (W)
15,16,17	<b>Construction Industries:</b>										
15	<b>General building contractors and operative builders:</b>										
152	General contractors, residential buildings:										
1521	Single-family houses -----	1 490	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	- -
1522	Other residential buildings -----	206	907	14 550	93 157	32 823	21 877	14 035	60 334	590	9 8
1531	Operative builders -----	304	3 154	80 058	698 379	309 962	281 856	59 793	388 417	11 145	3 1
154	General contractors, nonresidential buildings:										
1541	Industrial buildings and warehouses -----	190	3 812	95 818	623 245	223 999	147 697	86 413	399 246	3 764	3 2
1542	Nonresidential buildings, n.e.c. -----	542	9 584	255 334	2 109 843	545 506	312 447	239 486	1 564 337	9 552	1 2
16	<b>Heavy construction general contractors:</b>										
1611	Highway and street construction -----	135	1 784	45 936	223 635	179 973	122 669	68 079	43 662	3 204	3 2
162	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction -----	11	250	9 506	30 885	(D)	18 267	4 747	(D)	(D)	6 -
1623	Water, sewer, and utility lines -----	189	4 593	116 502	372 806	331 439	239 619	93 993	41 368	8 133	2 2
1629	Heavy construction, n.e.c. -----	95	21 218	751 222	1 851 100	1 179 278	1 138 085	(D)	671 823	12 721	(W) 1
17	<b>Special trade contractors:</b>										
1711	Plumbing, heating, and air conditioning -----	1 510	15 124	352 393	1 088 230	995 157	617 186	(D)	93 073	12 762	2 2
1721	Painting, paper hanging, and decorating -----	620	3 402	61 585	160 092	150 689	116 579	34 337	9 403	2 163	5 5
1731	Electrical work -----	1 208	12 592	339 194	971 996	934 841	592 703	358 247	37 155	14 562	2 2
174	Masonry, plastering, and tile setting: Masonry, stone setting, and other stonework -----	294	1 945	29 666	86 326	83 654	53 029	31 108	2 673	844	7 5
1742	Plastering, drywall, and insulation work -----	486	6 651	155 355	428 980	395 438	269 911	136 583	33 542	3 033	3 2
1743	Terrazzo, tile, marble, and mosaic work -----	121	767	15 939	47 505	46 399	27 798	19 628	1 106	*384	8 7
175	Carpentering and flooring: Carpentering -----	452	2 978	45 245	148 935	125 807	84 019	43 156	23 129	2 155	7 6
1752	Floor laying and other floorwork -----	204	1 397	30 120	93 978	89 154	51 395	40 297	4 822	614	7 8



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>LOS ANGELES-LONG BEACH SMSA—Con.</b>											
15,16, 17	<b>Construction industries—Con.</b>											
17	<b>Special trade contractors—Con.</b>											
175	Carpentering and flooring—Con.											
1761	Roofing and sheet metal work -----	529	5 104	89 619	334 451	324 018	197 739	128 686	10 433	3 179	5	3
1771	Concrete work -----	439	4 928	110 526	404 495	358 250	237 635	131 867	46 245	6 925	4	2
1781	Water well drilling -----	18	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	113	1 701	39 354	132 547	119 097	72 528	49 058	13 450	2 488	4	3
1793	Glass and glazing work -----	123	1 254	27 833	88 703	85 412	51 902	40 086	*3 292	729	11	9
1794	Excavating and foundation work -----	145	1 229	25 690	97 825	85 603	68 231	21 298	12 222	3 626	7	4
1795	Wrecking and demolition work -----	48	422	6 256	22 223	(D)	19 078	2 252	(D)	(D)	7	-
1796	Installing building equipment, n.e.c. -----	93	2 159	64 494	172 855	166 448	127 234	40 828	6 407	2 071	1	1
1799	Special trade contractors, n.e.c. -----	626	4 806	73 488	239 611	215 645	144 191	82 797	23 967	3 923	7	4
6552	Subdividers and developers, n.e.c. -----	322	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
	<b>OXNARD-SIMI VALLEY-VENTURA SMSA</b>											
	<b>Construction Industries and subdividers and developers.</b>	1 029	6 844	127 240	492 017	397 871	252 263	154 390	94 146	8 749	4	3
15,16, 17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	155	601	7 871	41 145	28 293	17 552	11 114	12 853	710	17	16
1522	Other residential buildings -----	10	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	-	-
1531	Operative builders -----	18	171	3 465	21 632	16 058	12 632	3 744	5 574	(S)	18	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	24	169	4 612	38 025	12 434	9 247	(D)	25 591	(D)	14	18
1542	Nonresidential buildings, n.e.c. -----	65	278	5 063	32 006	14 911	10 721	4 734	17 095	126	16	16
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction -----	22	204	5 053	22 856	18 701	12 693	6 439	4 155	308	16	15
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	41	503	11 865	37 793	33 888	21 522	(D)	3 905	990	11	8
1629	Heavy construction, n.e.c. -----	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning -----	105	670	11 172	40 417	37 912	22 351	16 840	2 505	826	13	12
1721	Painting, paper hanging, and decorating -----	74	184	2 298	7 700	7 293	5 548	1 760	407	131	17	19
1731	Electrical work -----	83	597	18 954	52 361	49 155	29 340	22 168	*3 206	593	7	6
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	42	142	1 763	7 045	6 732	3 860	2 874	314	(D)	17	21
1742	Plastering, drywall, and insulation work -----	45	352	3 917	12 646	12 379	7 216	(D)	267	39	27	21
1743	Terrazzo, tile, marble, and mosaic work -----	*15	118	2 741	6 483	(D)	3 650	2 848	(D)	49	12	-
175	Carpentering and flooring:											
1751	Carpentering -----	55	449	5 954	21 004	20 180	12 682	7 582	824	*169	10	16
1752	Floor laying and other floorwork -----	*17	*44	*594	*2 355	*2 275	*1 204	*1 076	(S)	-	45	44
1761	Roofing and sheet metal work -----	49	215	2 713	11 650	11 148	5 838	(D)	*502	*395	21	22
1771	Concrete work -----	65	424	7 426	36 042	31 885	19 286	12 603	4 157	146	15	8
1781	Water well drilling -----	3	8	(D)	(D)	(D)	(D)	(D)	-	(D)	40	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	9	186	4 069	11 354	10 384	7 652	(D)	970	173	1	(w) 27
1793	Glass and glazing work -----	*7	*38	809	3 702	3 702	2 067	(D)	-	(D)	46	27
1794	Excavating and foundation work -----	30	286	6 523	24 736	22 187	15 647	6 568	2 549	635	16	9
1795	Wrecking and demolition work -----	*1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. -----	*6	24	726	(D)	(D)	1 122	666	(D)	(D)	-	-
1799	Special trade contractors, n.e.c. -----	53	719	9 847	27 180	25 876	17 478	10 369	1 304	1 212	24	12
6552	Subdividers and developers, n.e.c. -----	27	47	903	2 463	1 859	1 807	321	*604	*67	21	34

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>RIVERSIDE-SAN BERNARDINO-ONTARIO SMSA</b>											
	Construction Industries and subdividers and developers	3 553	25 265	407 000	1 799 169	1 299 713	781 559	572 745	499 455	35 318	2	2
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	528	2 375	27 275	(D)	(D)	46 685	(D)	(D)	1 845	7	-
1522	Other residential buildings	63	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
1531	Operative builders	90	1 021	17 120	122 432	(D)	(D)	26 563	(D)	1 808	7	-
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	43	516	7 464	47 723	28 164	18 455	10 006	19 559	938	27	11
1542	Nonresidential buildings, n.e.c.	126	1 214	24 852	179 433	60 383	32 245	29 901	119 050	2 146	12	5
16	Heavy construction general contractors:											
1611	Highway and street construction	63	1 812	(D)	(D)	186 336	130 714	(D)	47 994	3 780	3	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	3	(D)	(D)	(D)	(S)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines	87	1 755	33 033	131 537	120 664	90 705	31 414	10 874	3 543	4	3
1629	Heavy construction, n.e.c.	50	676	11 738	(D)	(D)	(D)	18 667	(D)	(D)	3	2
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	421	2 494	41 553	143 866	135 565	78 103	62 949	8 301	2 700	7	6
1721	Painting, paper hanging, and decorating	154	718	13 483	36 638	35 395	27 361	8 046	1 243	1 555	11	8
1731	Electrical work	377	2 067	40 470	134 062	129 532	74 396	58 216	4 530	2 726	8	7
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	131	660	10 243	36 091	34 531	21 778	12 984	1 560	(D)	10	8
1742	Plastering, drywall, and insulation work	190	1 436	20 338	65 456	60 459	36 934	24 495	4 998	1 305	10	7
1743	Terrazzo, tile, marble, and mosaic work	54	272	4 182	11 993	11 330	6 526	4 842	*663	106	16	12
175	Carpentering and flooring:											
1751	Carpentering	205	1 471	18 646	62 183	57 509	34 499	23 699	4 674	1 012	7	5
1752	Floor laying and other floorwork	54	305	3 596	17 465	15 739	6 363	9 854	1 726	125	23	20
1761	Roofing and sheet metal work	148	1 127	15 403	58 499	56 417	30 198	27 330	2 082	1 372	9	10
1771	Concrete work	262	1 611	24 021	98 549	90 310	53 361	37 843	8 239	3 813	11	11
1781	Water well drilling	21	173	1 996	9 231	9 086	5 389	(D)	145	(S)	26	29
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	30	675	10 805	38 002	36 416	25 748	12 803	1 586	186	10	6
1793	Glass and glazing work	44	335	6 478	27 220	26 297	12 948	14 180	923	209	16	12
1794	Excavating and foundation work	96	682	10 907	46 001	37 794	28 872	11 575	8 207	2 390	8	6
1795	Wrecking and demolition work	*8	(D)	(D)	*1 341	*1 156	*932	(D)	(S)	(D)	-	55
1796	Installing building equipment, n.e.c.	19	107	1 730	4 561	4 443	3 254	1 342	118	(D)	25	17
1799	Special trade contractors, n.e.c.	241	1 209	12 361	47 396	42 495	24 960	20 801	4 901	1 001	12	11
6552	Subdividers and developers, n.e.c.	51	224	2 840	8 117	6 028	5 251	1 417	2 089	*273	20	29
	<b>SACRAMENTO SMSA</b>											
	Construction Industries and subdividers and developers	2 647	17 693	349 158	1 511 651	1 063 838	665 316	425 342	447 812	14 354	2	2
15,16,17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	561	2 144	24 095	(D)	(D)	51 313	(D)	33 532	1 233	7	-
1522	Other residential buildings	29	75	1 188	10 318	5 169	3 570	1 644	5 149	(D)	9	9
1531	Operative builders	82	504	13 328	79 878	45 929	31 606	14 874	33 949	466	6	6
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	30	332	7 463	54 541	24 628	17 695	(D)	29 913	401	10	4
1542	Nonresidential buildings, n.e.c.	168	1 753	44 385	384 769	128 421	87 431	42 431	256 348	1 961	5	3



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>SACRAMENTO SMSA—Con.</b>											
15,16,17	<b>Construction Industries—Con.</b>											
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction -----	54	798	19 114	83 356	72 989	38 569	34 785	10 367	561	8	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	5	239	6 953	(D)	24 240	15 829	9 575	(D)	(D)	(W)	(W)
1623	Water, sewer, and utility lines -----	54	327	6 095	24 557	21 180	12 590	8 945	3 377	*199	22	15
1629	Heavy construction, n.e.c. -----	39	393	10 615	40 271	27 993	12 546	15 937	12 278	188	6	7
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning -----	255	2 900	74 949	196 665	186 348	120 728	67 196	10 317	1 906	3	3
1721	Painting, paper hanging, and decorating -----	130	370	4 590	14 284	13 825	10 704	3 181	459	539	17	16
1731	Electrical work -----	262	1 325	28 704	95 636	90 022	51 650	41 733	5 614	1 058	8	6
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework -----	67	249	4 981	13 453	13 244	7 762	(D)	209	*200	18	17
1742	Plastering, drywall, and insulation work -----	146	1 213	17 986	60 140	56 785	35 409	22 052	3 356	694	7	8
1743	Terrazzo, tile, marble, and mosaic work -----	49	198	3 098	9 221	9 159	5 030	4 135	62	*63	16	19
175	Carpentering and flooring:											
1751	Carpentering -----	103	434	6 012	23 249	20 672	10 820	(D)	*2 577	71	13	10
1752	Floor laying and other floorwork-----	52	205	2 955	14 365	13 829	6 956	7 239	536	95	15	18
1761	Roofing and sheet metal work -----	95	1 113	16 971	58 592	56 254	32 735	(D)	2 338	448	9	8
1771	Concrete work -----	134	799	11 914	41 577	36 654	24 172	(D)	4 923	513	13	12
1781	Water well drilling -----	23	139	2 256	10 308	9 129	5 193	3 997	*1 179	114	16	15
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	23	444	11 411	32 501	30 445	22 917	7 709	2 056	837	10	7
1793	Glass and glazing work -----	40	194	4 299	17 752	(D)	9 842	8 989	(D)	113	16	-
1794	Excavating and foundation work -----	71	290	4 230	18 261	16 424	12 371	4 409	1 837	545	19	16
1795	Wrecking and demolition work -----	*9	27	525	1 968	1 717	1 538	292	251	240	17	10
1796	Installing building equipment, n.e.c. -	15	215	5 431	12 328	11 808	8 544	(D)	520	76	4	5
1799	Special trade contractors, n.e.c.-----	100	663	11 488	42 877	36 897	23 069	15 610	5 980	437	11	9
6552	Subdividers and developers, n.e.c. ---	55	351	4 125	9 084	6 438	4 733	2 487	2 646	195	28	27
	<b>SAN DIEGO SMSA</b>											
	<b>Construction Industries and subdividers and developers.</b>	3 736	28 936	573 541	2 495 323	1 811 507	1 183 640	693 881	683 816	43 231	2	1
15,16,17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses -----	655	2 767	32 869	175 880	114 748	70 975	51 077	61 132	1 796	6	7
1522	Other residential buildings -----	76	506	9 097	55 542	27 089	16 376	10 986	28 453	227	6	6
1531	Operative builders -----	109	1 029	22 417	168 928	92 597	83 454	15 507	76 331	4 355	5	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	38	766	20 736	123 240	61 440	42 780	(D)	61 800	1 343	6	3
1542	Nonresidential buildings, n.e.c. -----	259	2 772	64 933	532 883	246 619	176 970	71 702	286 265	6 942	5	2
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction -----	73	932	23 636	104 465	79 692	47 220	36 374	24 774	2 498	6	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	*4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines -----	61	821	17 881	71 025	65 438	39 207	27 294	5 587	2 128	4	7
1629	Heavy construction, n.e.c. -----	34	612	15 476	96 179	60 173	30 276	(D)	36 006	858	2	2



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
<b>SAN DIEGO SMSA—Con.</b>												
15,16,17	<b>Construction Industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning .....	381	3 537	85 778	279 294	251 098	169 059	92 321	28 197	3 114	4	3
1721	Painting, paper hanging, and decorating .....	213	826	14 015	39 718	36 968	27 202	10 119	2 751	*1 544	11	12
1731	Electrical work .....	311	2 642	59 570	191 616	177 980	102 599	80 181	13 636	2 222	5	5
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	119	515	9 117	27 137	26 566	17 776	(D)	571	396	11	10
1742	Plastering, drywall, and insulation work .....	211	2 493	40 722	109 358	103 516	70 650	35 243	5 842	1 725	7	4
1743	Terrazzo, tile, marble, and mosaic work .....	48	269	5 100	16 147	15 973	9 342	(D)	174	103	12	13
175	Carpentering and flooring:											
1751	Carpentering .....	178	1 185	17 325	60 054	55 190	29 125	27 030	4 865	814	7	8
1752	Floor laying and other floorwork .....	80	406	7 095	23 104	22 108	10 966	13 751	996	199	11	13
1761	Roofing and sheet metal work .....	152	1 263	21 045	68 257	64 908	35 841	29 375	3 350	881	11	8
1771	Concrete work .....	186	1 780	32 841	107 628	99 210	58 113	42 004	8 418	2 394	8	6
1781	Water well drilling .....	25	87	1 092	4 999	4 802	2 331	2 487	*197	(D)	34	29
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	39	484	10 937	33 579	31 886	20 641	13 493	1 693	258	7	5
1793	Glass and glazing work .....	50	305	7 283	28 306	27 591	14 327	15 578	715	462	10	8
1794	Excavating and foundation work .....	97	860	21 048	77 711	65 944	59 731	15 382	11 767	6 527	7	5
1795	Wrecking and demolition work .....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. ....	19	277	7 402	15 610	15 287	11 792	3 616	323	75	8	7
1799	Special trade contractors, n.e.c. ....	194	1 138	14 972	50 520	47 945	30 887	19 250	2 575	997	9	9
6552	Subdividers and developers, n.e.c. ....	125	511	6 120	18 541	13 409	11 376	4 162	5 133	425	12	13
<b>SAN FRANCISCO-OAKLAND SMSA</b>												
	<b>Construction Industries and subdividers and developers.</b>	6 357	100 993	2 826 990	10 923 859	8 098 226	5 651 297	3 208 711	2 825 634	104 916	1	(W)
15,16,17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	1 295	5 703	82 618	(D)	252 964	158 820	99 326	(D)	4 261	5	4
1522	Other residential buildings .....	156	698	13 023	105 237	37 937	18 517	20 238	67 300	607	10	8
1531	Operative builders .....	221	2 313	54 754	394 809	230 788	182 338	55 424	164 022	2 391	3	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	76	2 064	69 211	(D)	(D)	441 821	83 035	182 435	1 691	2	-
1542	Nonresidential buildings, n.e.c. ....	413	7 797	219 986	1 557 050	530 743	270 854	266 496	1 026 308	8 267	2	2
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction .....	79	1 943	52 408	260 038	186 078	117 340	(D)	73 960	6 555	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines .....	75	1 702	49 771	250 360	205 356	143 079	65 941	45 004	3 593	3	2
1629	Heavy construction, n.e.c. ....	103	30 521	1 190 065	(D)	3 141 968	2 359 925	(D)	871 080	31 134	(W)	(W)
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning .....	648	9 526	224 507	661 066	581 824	400 749	210 487	79 242	10 178	1	2
1721	Painting, paper hanging, and decorating .....	453	2 677	52 945	127 127	120 995	95 417	26 308	6 132	1 614	5	4
1731	Electrical work .....	589	11 186	309 927	938 759	909 962	533 666	383 969	28 798	6 961	5	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	118	1 765	28 092	64 890	56 282	33 915	(D)	8 608	1 376	6	8
1742	Plastering, drywall, and insulation work .....	247	3 391	91 994	229 254	210 400	136 850	76 060	18 855	2 846	3	3
1743	Terrazzo, tile, marble, and mosaic work .....	74	623	(D)	(D)	(D)	20 183	11 052	(D)	(D)	11	-
175	Carpentering and flooring:											
1751	Carpentering .....	315	2 096	37 175	128 097	116 064	70 856	(D)	12 032	679	7	4
1752	Floor laying and other floorwork .....	142	970	18 887	65 802	61 094	36 544	25 820	4 708	(D)	7	5
1761	Roofing and sheet metal work .....	378	3 812	68 332	(D)	196 157	117 338	83 146	10 340	2 757	5	4

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>SAN FRANCISCO-OAKLAND SMSA—Con.</b>											
15,16,17	<b>Construction Industries—Con.</b>											
17	<b>Special trade contractors—Con.</b>											
175	Carpentering and flooring—Con.											
1771	Concrete work .....	233	2 139	46 302	141 982	128 896	85 845	(D)	13 086	(D)	5	4
1781	Water well drilling .....	4	13	(D)	(D)	527	285	(D)	(D)	-	(W)	(W)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	34	1 311	29 592	96 637	(D)	53 978	(D)	(D)	(D)	2	-
1793	Glass and glazing work .....	90	739	(D)	75 762	74 802	43 648	33 238	960	790	7	6
1794	Excavating and foundation work .....	103	1 407	30 135	122 679	98 917	77 926	28 745	23 762	4 695	5	3
1795	Wrecking and demolition work .....	22	(D)	4 402	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. ....	58	1 225	39 913	87 182	80 654	62 078	(D)	6 528	(D)	4	3
1799	Special trade contractors, n.e.c. ....	307	4 141	69 467	203 002	191 646	148 207	50 957	11 356	3 883	3	4
6552	Subdividers and developers, n.e.c. ....	125	919	11 681	34 626	25 314	26 946	7 322	9 312	3 107	10	11
	<b>SAN JOSE SMSA</b>											
	<b>Construction Industries and subdividers and developers</b>	2 426	24 347	582 423	2 492 513	1 689 930	1 155 108	620 050	802 583	36 127	1	1
15,16,17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	370	1 702	25 344	133 586	89 209	55 619	37 401	44 376	2 443	10	6
1522	Other residential buildings .....	57	260	5 719	54 277	21 723	11 373	10 504	32 554	71	8	5
1531	Operative builders .....	57	698	17 523	158 236	88 087	101 876	(D)	70 150	1 690	8	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	47	1 476	44 927	371 208	124 566	87 428	39 894	246 642	2 630	3	2
1542	Nonresidential buildings, n.e.c. ....	108	1 675	51 749	389 488	113 893	79 695	41 730	275 595	8 387	5	4
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction .....	57	857	20 819	118 930	85 750	52 112	34 373	33 180	1 662	10	6
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1623	Water, sewer, and utility lines .....	55	652	17 448	61 132	56 548	33 161	23 891	4 584	1 593	5	5
1629	Heavy construction, n.e.c. ....	24	173	3 886	11 227	9 454	7 202	2 596	1 773	608	6	3
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning .....	253	3 320	94 181	286 985	256 982	178 049	93 157	30 004	3 229	3	2
1721	Painting, paper hanging, and decorating .....	190	1 015	20 036	48 399	45 842	36 751	9 384	2 557	931	7	6
1731	Electrical work .....	194	3 109	95 900	274 207	264 918	172 944	98 438	9 290	4 429	3	1
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	70	279	3 584	11 505	11 174	6 605	4 627	*331	*125	20	18
1742	Plastering, drywall, and insulation work .....	128	2 095	45 014	119 168	111 268	78 042	34 493	7 900	1 594	3	3
1743	Terrazzo, tile, marble, and mosaic work .....	71	269	5 527	14 554	14 353	7 803	6 590	201	(S)	12	12
175	Carpentering and flooring:											
1751	Carpentering .....	98	700	13 496	39 666	38 327	22 684	15 992	1 339	249	13	12
1752	Floor laying and other floorwork .....	70	555	10 075	36 708	34 326	16 949	19 488	*2 383	539	11	16
1761	Roofing and sheet metal work .....	104	1 432	22 719	69 023	67 783	40 992	34 546	1 240	1 029	7	7
1771	Concrete work .....	147	1 655	34 297	111 882	95 175	61 964	34 426	16 707	1 824	6	5
1781	Water well drilling .....	*2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	8	217	6 177	24 308	23 638	13 763	10 589	670	390	(W)	(W)
1793	Glass and glazing work .....	33	328	7 335	29 206	28 698	13 825	15 300	508	415	14	9
1794	Excavating and foundation work .....	83	486	11 646	49 203	39 320	30 081	10 460	9 883	936	9	11
1795	Wrecking and demolition work .....	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. ....	18	201	5 737	15 033	14 620	10 238	(D)	413	(D)	15	10
1799	Special trade contractors, n.e.c. ....	122	946	15 402	51 372	45 810	29 617	20 435	5 562	782	10	12
6552	Subdividers and developers, n.e.c. ....	59	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>VALLEJO-FAIRFIELD-NAPA SMSA</b>											
	Construction Industries and subdividers and developers	629	4 747	97 724	394 993	321 123	207 036	126 032	73 870	12 843	4	3
15, 16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	137	711	12 373	(D)	32 016	18 220	(D)	(D)	688	10	9
1522	Other residential buildings	*8	63	1 146	9 940	8 719	4 605	(D)	*1 221	(S)	14	11
1531	Operative builders	*12	53	848	3 647	1 760	(D)	(D)	1 887	35	33	25
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	3	30	858	(D)	1 665	(D)	467	(D)	(D)	(W)	(W)
1542	Nonresidential buildings, n.e.c.	33	411	11 238	60 588	30 996	22 511	10 643	29 592	(D)	19	10
16	Heavy construction general contractors:											
1611	Highway and street construction	15	171	3 934	17 545	15 509	9 937	(D)	*2 036	915	17	18
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	16	514	10 406	49 307	43 005	28 521	16 681	6 303	3 169	11	6
1629	Heavy construction, n.e.c.	16	135	3 894	(D)	(D)	10 674	(D)	(D)	(D)	10	—
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning	75	460	9 790	29 446	25 820	16 505	9 999	3 626	495	12	12
1721	Painting, paper hanging, and decorating	32	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	—	—
1731	Electrical work	53	344	8 655	28 946	27 879	16 036	13 205	1 067	192	9	8
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework	21	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	—	—
1742	Plastering, drywall, and insulation work	35	276	4 034	11 424	11 287	7 274	(D)	137	315	20	13
1743	Terrazzo, tile, marble, and mosaic work	*12	48	(D)	(D)	(D)	2 237	1 394	(D)	(D)	11	—
175	Carpentering and flooring:											
1751	Carpentering	18	170	1 749	6 104	5 540	3 232	(D)	(S)	*169	17	18
1752	Floor laying and other floorwork	*10	57	1 049	2 981	2 901	1 596	1 305	80	(D)	35	34
1761	Roofing and sheet metal work	23	188	2 342	9 693	8 894	5 297	(D)	(S)	(D)	29	30
1771	Concrete work	24	208	4 762	15 010	14 748	9 154	5 658	262	353	15	12
1781	Water well drilling	*4	*27	(D)	(D)	*1 361	*1 079	(D)	(D)	*27	52	46
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	8	205	6 188	17 273	(D)	13 662	3 493	(D)	(D)	15	—
1793	Glass and glazing work	*5	(S)	(D)	(S)	(S)	(S)	(S)	(S)	(S)	—	—
1794	Excavating and foundation work	27	230	6 531	34 027	30 425	23 028	9 445	3 602	3 106	14	5
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	—	—	—	—	—	—	—	—	—	—	—
1799	Special trade contractors, n.e.c.	31	136	1 771	4 916	4 661	3 024	1 731	256	*36	23	21
6552	Subdividers and developers, n.e.c.	13	*58	*1 055	*2 512	(S)	*1 571	*607	*700	(S)	49	—





# Hawaii

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# SUMMARY OF FINDINGS

During 1982, 4,259 establishments in Hawaii operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$2.0 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 2,398 establishments in this State with no payroll, accounted for about 9 percent of all business receipts for all construction establishments in Hawaii. On the other hand, 1,861 establishments classified as "employers" accounted for 91 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$1.9 billion, of which \$1.8 billion were receipts for construction work. These establishments paid \$524 million for construction work subcontracted to others, leaving net construction receipts of about \$1.3 billion. Value added for these establishments amounted to \$855 million. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Hawaii paid \$419 million for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$37.0 million were also made for selected power, fuels, and

lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Hawaii was 18.7 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 5.7 million hours, while hours worked during the third quarter were 5.2 million hours.

Total payroll for 1982 was \$410 million. Payments of \$93.1 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Hawaii are based on a sample of about 891 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	All business receipts		Proprie- tors and working partners	All business receipts		Proprie- tors and working partners	All em- ployees**	All business receipts		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
15,16, 17	1982													
	Construction Industries and subdividers and developers-----	4 259	2 799	18 665	2 032 087	2 398	2 403	178 744	1 861	396	18 665	1 853 343	1	1
	Construction Industries¹-----	4 092	2 645	18 340	1 894 673	2 289	2 259	75 784	1 803	386	18 340	1 818 889	1	1
	General building contractors and operative bullders-----	1 020	564	6 290	944 585	461	439	32 847	559	125	6 290	911 738	2	1
	Heavy construction, general contractors -	133	67	1 768	179 221	51	50	1 679	82	17	1 768	177 542	3	3
	Special trade contractors-----	2 939	2 014	10 282	770 867	1 777	1 770	41 258	1 162	244	10 282	729 609	2	2
	Plumbing, heating, and air conditioning----	392	233	2 111	146 402	209	208	7 328	183	*25	2 111	139 074	5	3
	Electrical work-----	360	216	1 297	121 525	163	160	5 450	197	56	1 297	116 075	5	3
	Subdividers and developers, n.e.c.²-----	162	154	323	137 412	109	144	102 960	53	10	323	34 452	8	4
	1977													
15,16, 17	Construction Industries and subdividers and developers-----	3 170	2 020	20 792	1 508 865	1 438	1 490	73 708	1 732	530	20 792	1 435 157	2	1
	Construction Industries¹-----	3 029	1 848	20 187	(D)	1 351	1 349	26 862	1 678	499	20 187	(D)	2	-
	General building contractors and operative bullders-----	843	459	7 944	779 765	237	229	9 556	606	230	7 944	770 209	6	2
	Heavy construction, general contractors -	114	50	2 319	(D)	34	31	837	80	19	2 319	(D)	2	-
	Special trade contractors-----	2 072	1 340	9 924	469 029	1 080	1 089	16 469	992	251	9 924	452 555	2	2
	Plumbing, heating, and air conditioning----	296	183	1 731	93 350	130	126	2 284	166	57	1 731	91 246	4	3
	Electrical work-----	256	99	1 687	87 466	97	98	1 428	159	1	1 687	86 038	4	2
	Subdividers and developers, n.e.c.²-----	145	172	607	(D)	87	141	46 846	58	31	607	(D)	16	-

<sup>1</sup>For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

<sup>2</sup>For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.



**Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
<b>1982</b>													
<b>The State</b> .....	4 259	2 799	18 665	2 032 087	2 398	2 403	178 744	1 861	396	18 665	1 853 343	1	1
\$10,000,000 or more .....	30	6	4 370	(D)	3	6	52 520	27	—	4 370	(D)	(W)	—
\$5,000,000 to \$9,999,999 .....	45	2	3 002	(D)	1	2	(D)	44	—	3 002	1 033 254	(W)	(W)
\$2,500,000 to \$4,999,999 .....	88	19	2 647	(D)	10	17	41 564	78	2	2 647	(D)	(W)	—
\$1,000,000 to \$2,499,999 .....	156	18	2 813	1 655 536	6	9	9 232	150	9	2 813	507 591	2	2
\$500,000 to \$999,999 .....	184	25	1 730	135 723	10	11	7 452	174	*14	1 730	128 271	8	8
\$250,000 to \$499,999 .....	267	70	1 447	93 270	30	28	10 428	237	42	1 447	82 842	10	10
\$100,000 to \$249,999 .....	568	211	1 563	88 375	116	111	17 965	452	100	1 563	70 410	9	8
\$50,000 to \$99,999 .....	519	340	547	37 082	225	234	15 583	294	106	547	21 499	12	10
\$25,000 to \$49,999 .....	509	386	288	(D)	328	328	11 374	181	58	288	(D)	16	—
Less than \$25,000 .....	1 892	1 722	258	22 101	1 669	1 657	12 626	223	65	258	9 475	12	11
\$10,000 to \$24,999 .....	(NA)	(NA)	(NA)	(NA)	533	533	8 542	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	386	379	2 573	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	407	405	1 168	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 .....	(NA)	(NA)	(NA)	(NA)	343	340	343	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>1977</b>													
<b>The State</b> .....	3 170	2 020	20 792	1 508 865	1 438	1 490	73 708	1 732	530	20 792	1 435 157	2	1
\$10,000,000 or more .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 <sup>2</sup> .....	63	5	7 703	(D)	2	4	(D)	61	1	7 703	729 641	5	1
\$2,500,000 to \$4,999,999 .....	51	14	2 234	924 902	4	6	29 053	47	8	2 234	166 208	1	5
\$1,000,000 to \$2,499,999 .....	150	32	3 622	235 838	7	8	10 048	143	24	3 622	225 790	3	5
\$500,000 to \$999,999 .....	191	44	2 386	135 706	6	10	4 582	185	34	2 386	131 124	4	5
\$250,000 to \$499,999 .....	266	85	1 840	91 368	15	20	4 866	251	65	1 840	86 502	5	7
\$100,000 to \$249,999 .....	451	173	1 723	73 028	44	60	6 904	407	113	1 723	66 124	8	8
\$50,000 to \$99,999 .....	398	268	826	27 842	72	80	4 855	326	188	826	22 987	13	12
\$25,000 to \$49,999 .....	304	223	204	10 423	175	187	6 009	129	36	204	4 414	20	19
Less than \$25,000 .....	1 814	1 802	(S)	6 233	1 687	1 718	5 629	(S)	(S)	(S)	(S)	—	—
\$10,000 to \$24,999 .....	856	818	50	2 723	806	805	2 526	133	49	205	2 162	27	26
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	218	219	1 465	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	315	314	891	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 .....	(NA)	(NA)	(NA)	(NA)	273	272	170	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

<sup>2</sup>Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.



**Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	<b>Construction Industries and subdividers and developers</b> .....	1 861	18 665	13 953	409 679	297 885	21 817	1 785 660	1 261 905
15,16, 17	<b>Construction Industries:</b>								
15	<b>General building contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses .....	359	1 661	1 274	26 595	19 061	1 684	131 839	93 738
1522	Other residential buildings .....	45	1 925	1 389	52 913	37 904	2 674	296 046	150 972
1531	Operative builders .....	19	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses .....	12	337	270	9 387	7 087	492	50 559	29 979
1542	Nonresidential buildings, n.e.c. ....	124	2 060	1 452	52 748	35 072	2 425	348 506	150 352
16	<b>Heavy construction general contractors:</b>								
1611	Highway and street construction .....	33	983	780	23 992	17 916	1 182	107 855	81 691
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction .....	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines .....	21	464	378	9 055	7 061	439	36 289	30 312
1629	Heavy construction, n.e.c. ....	28	321	225	6 688	4 526	329	26 894	18 729
17	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air conditioning .....	183	2 111	1 548	43 632	32 434	2 485	135 656	126 190
1721	Painting, paper hanging, and decorating .....	143	918	762	20 446	16 598	1 136	51 621	48 098
1731	Electrical work .....	197	1 297	1 047	32 190	25 250	1 771	112 311	109 001
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework .....	77	426	362	5 653	4 760	439	17 277	16 855
1742	Plastering, drywall, and insulation work .....	64	842	683	20 219	15 993	1 027	63 272	60 385
1743	Terrazzo, tile, marble, and mosaic work .....	25	184	159	3 888	3 002	254	10 889	(D)
175	Carpentering and flooring:								
1751	Carpentering .....	118	495	398	8 419	6 581	483	43 207	26 998
1752	Floor laying and other floorwork .....	33	163	127	3 577	2 673	212	(D)	12 133
1761	Roofing and sheet metal work .....	114	945	663	16 374	10 919	924	52 644	49 929
1771	Concrete work .....	47	611	441	13 224	9 264	711	44 094	(D)
1781	Water well drilling .....	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection .....	23	675	590	16 754	14 476	975	48 793	47 250
1793	Glass and glazing work .....	22	303	213	6 840	4 574	349	26 159	25 465
1794	Excavating and foundation work .....	39	380	296	7 745	5 325	417	29 735	23 824
1795	Wrecking and demolition work .....	3	(D)	13	(D)	142	10	1 068	(D)
1796	Installing building equipment, n.e.c. ....	13	449	333	11 058	8 757	459	31 430	30 960
1799	Special trade contractors, n.e.c. ....	60	412	310	5 781	(D)	528	20 484	18 949
6552	<b>Subdividers and developers, n.e.c.</b> .....	53	323	94	4 840	1 327	165	122 722	12 755

†Land receipts for SIC 6552 were \$10,007.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
855 164	455 915	523 754	28 527	26 717	335 903	20 792	1 329 495	636 173	1	1	2	15,16, 17
63 087	35 936	38 101	1 889	1 574	16 434	2 813	190 812	74 013	6	6	11	152
90 411	62 550	145 074	2 312	3 295	34 975	873	87 440	30 530	1	1	(W)	1521 1522
(D)	(D)	(S)	(S)	(S)	(S)	1 134	136 045	62 310	—	—	—	1531
19 452	(D)	20 579	1 077	335	10 304	209	(D)	(D)	5	4	9	154
93 189	61 934	198 154	4 054	5 292	41 243	2 915	286 729	94 880	3	1	(W)	1541 1542
												16
51 037	36 341	26 164	2 680	2 955	42 351	1 352	86 330	41 092	3	4	1	1611
—	—	—	—	—	—	—	—	—	—	—	—	162
20 886	9 733	5 977	1 149	1 102	18 830	492	28 961	16 883	3	7	4	1622
14 660	4 578	8 165	217	(D)	3 317	475	30 261	12 252	10	14	—	1623 1629
												17
84 487	45 121	9 465	2 190	1 353	21 240	1 731	87 336	50 473	5	4	10	1711
38 371	9 960	3 523	897	797	7 737	952	35 576	26 866	6	5	4	1721
71 723	41 042	3 309	1 421	1 736	16 677	1 687	85 420	50 293	5	3	3	1731
11 611	5 283	422	387	351	5 095	583	26 769	14 562	16	11	21	174
41 282	20 129	2 887	1 231	820	4 490	1 168	35 820	24 468	2	2	3	1741
7 990	3 861	(D)	449	63	483	106	4 010	2 468	15	—	21	1742 1743
19 738	7 325	16 209	552	570	5 795	320	11 950	8 022	11	11	18	175
7 250	5 082	(D)	70	150	1 423	189	10 284	5 308	12	12	14	1751 1752
29 940	21 069	2 714	1 311	1 036	7 424	869	31 667	16 834	9	7	6	1761
24 969	10 948	(D)	740	1 114	12 339	283	11 566	7 447	5	—	3	1771
(D)	(D)	(D)	(D)	(D)	(D)	(S)	(S)	(S)	—	—	—	1781
34 071	(D)	1 543	1 438	2 056	11 071	339	14 621	9 383	8	8	13	179
13 649	13 142	694	366	168	1 647	125	6 131	3 058	8	5	(W)	1791
19 213	6 516	5 911	2 796	(D)	18 499	377	19 887	19 882	7	6	—	1793
927	129	(D)	83	(D)	410	84	1 949	1 745	—	—	—	1794
25 907	5 106	470	251	(D)	2 062	194	13 019	9 408	(W)	(W)	—	1795
12 697	7 558	1 534	569	397	3 618	884	38 594	24 963	13	11	6	1796 1799
10 361	4 116	9 967	198	209	10 171	607	30 865	21 560	8	4	14	6552



**Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year .....	1 861	1 732	1 570	1 220	3	4	5	5
Number of establishments in business at end of year .....	1 818	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Proprietors and working partners .....	396	530	590	718	11	12	11	10
All employees** .....	18 665	20 792	25 012	17 171	1	2	2	1
Construction workers:								
March .....	14 789	15 808	19 405	14 028	2	2	2	1
May .....	14 317	16 516	19 357	13 994	2	2	2	1
August .....	12 977	16 798	20 527	14 814	2	2	2	1
November .....	12 915	13 955	20 568	14 504	2	3	2	1
Average .....	13 953	15 784	20 163	14 430	1	2	2	1
Other employees:								
March .....	4 711	5 032	4 949	2 666	2	4	2	2
Construction worker hours (thousands):								
January to March .....	5 716	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
April to June .....	5 716	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
July to September .....	5 217	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
October to December .....	5 167	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Total hours worked .....	21 817	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees .....	409 679	323 402	282 602	133 622	1	2	2	1
Payroll, construction workers .....	297 885	240 359	222 909	107 320	1	2	2	1
Payroll, other employees .....	111 794	83 043	59 693	26 311	1	3	2	2
First quarter payroll, all employees .....	101 744	78 382	(NA)	(NA)	1	2	(NA)	(NA)
Employer costs for fringe benefits .....	93 091	101 245	(NA)	(NA)	1	1	(NA)	(NA)
Legally required expenditures .....	68 705	37 076	(NA)	(NA)	1	2	(NA)	(NA)
Voluntary expenditures .....	24 386	64 170	(NA)	(NA)	1	1	(NA)	(NA)
All business receipts .....	1 853 343	1 435 157	1 085 515	543 304	1	1	2	2
Total construction receipts .....	1 785 660	1 329 495	1 014 587	510 632	1	1	2	2
Receipts for work subcontracted in from others .....	425 754	303 490	195 233	93 485	2	1	3	2
Land receipts <sup>1</sup> .....	18 509	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other business receipts .....	49 174	105 662	70 928	32 702	3	7	3	6
Net construction receipts† .....	1 261 905	962 065	718 461	355 630	1	1	2	1
Value added†† .....	855 164	636 173	477 458	230 264	1	2	2	2
Selected payments .....	979 670	744 283	578 749	293 222	1	1	2	2
Materials, components, and supplies <sup>2</sup> .....	418 874	361 304	282 623	138 219	1	1	2	2
Construction work subcontracted to others .....	523 754	367 430	296 126	155 029	1	2	1	3
Selected power, fuels, and lubricants .....	37 041	15 549	(NA)	(NA)	1	3	(NA)	(NA)
Electricity .....	16 193	2 881	(NA)	(NA)	1	5	(NA)	(NA)
Natural gas .....	275	436	(NA)	(NA)	7	13	(NA)	(NA)
Gasoline and diesel fuel (including gasohol) .....	18 558	10 177	(NA)	(NA)	2	3	(NA)	(NA)
Other, including lubricating oils and greases .....	2 013	2 055	(NA)	(NA)	3	7	(NA)	(NA)
Storage capacity for fuels (thousand gallons) <sup>3</sup> .....	258	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures .....	28 527	20 603	(NA)	(NA)	3	1	(NA)	(NA)
For machinery and equipment .....	17 135	13 861	15 826	4 729	4	1	1	4
For structures .....	11 392	6 743	(NA)	(NA)	4	2	(NA)	(NA)
Selected purchased services .....	25 875	18 333	(NA)	(NA)	3	3	(NA)	(NA)
Communication services .....	5 072	3 855	(NA)	(NA)	6	4	(NA)	(NA)
Repairs to structures and related facilities .....	1 801	1 145	(NA)	(NA)	2	8	(NA)	(NA)
Repairs to machinery and equipment .....	19 001	13 333	(NA)	(NA)	3	3	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts .....	1 785 660	1 329 495	1 014 587	510 632	1	1	2	2
Government owned .....	499 385	439 607	294 121	150 798	2	1	2	2
Privately owned .....	1 286 274	889 888	720 466	359 834	1	2	2	2

<sup>1</sup>Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

<sup>2</sup>For 1967 and 1972, includes data for power, fuels, and lubricants.

<sup>3</sup>Data were collected only for establishments classified as heavy construction contractors.



**Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
<b>STRUCTURES, MACHINERY, AND EQUIPMENT</b>								
Beginning-of-year gross book value of depreciable assets -----	323 562	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	26 717	21 770	27 116	10 555	2	4	5	6
New -----	18 445	17 470	20 537	8 646	2	5	3	6
Used -----	8 272	4 300	6 579	1 909	4	6	13	8
Retirements and disposition of depreciable assets -----	14 377	(NA)	(NA)	(NA)	22	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	335 903	271 548	185 213	(NA)	1	3	2	(NA)
Depreciation charges during year -----	31 011	20 951	15 714	(NA)	2	3	3	(NA)
<b>Structures, Additions, and Related Facilities</b>								
Beginning-of-year gross book value of depreciable assets -----	89 909	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	6 347	5 192	7 343	2 531	1	10	4	9
New structures and related facilities -----	3 899	4 488	6 713	2 455	1	13	4	11
Used structures and related facilities -----	2 448	704	630	76	3	8	4	7
Retirements and disposition of depreciable assets -----	2 543	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	93 714	85 618	55 557	(NA)	1	5	2	(NA)
Depreciation charges during year -----	5 240	3 595	2 380	(NA)	2	6	2	(NA)
<b>Machinery and Equipment</b>								
Beginning-of-year gross book value of depreciable assets -----	233 653	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	20 370	16 578	19 773	8 024	3	5	9	6
New machinery and equipment, including automobiles and trucks -----	14 545	12 982	13 824	6 191	3	3	4	5
New automobiles and trucks, intended primarily for highway use -----	5 181	5 270	(NA)	(NA)	9	4	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	5 824	3 596	5 949	1 833	5	7	15	8
Retirements and disposition of depreciable assets -----	11 833	(NA)	(NA)	(NA)	27	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	242 189	185 931	129 656	(NA)	2	2	2	(NA)
Depreciation charges during year -----	25 770	17 356	13 334	(NA)	2	3	3	(NA)

**Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
<b>All establishments:</b>		
Number .....	1 861	3
Total construction receipts .....	1 785 660	1
<b>Establishments with inventories:</b>		
Number .....	489	13
Total construction receipts .....	899 538	1
<b>Inventories<sup>1</sup>:</b>		
End of 1982, total .....	36 718	2
Value for establishments with LIFO reserve .....	2 948	1
Amount of LIFO reserve .....	(D)	-
Value for establishments with no LIFO reserve .....	33 770	2
End of 1981, total .....	27 952	2
Value for establishments with LIFO reserve .....	1 761	1
Amount of LIFO reserve .....	(D)	-
Value for establishments with no LIFO reserve .....	26 191	2
<b>Establishments with no inventories:</b>		
Number .....	1 372	3
Total construction receipts .....	886 122	2

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more	
<b>1982</b>											
Number of establishments -----	1 861	1 147	314	205	125	47	19	1	-	1	
All employees** -----	18 665	2 261	2 079	2 756	3 789	3 350	4 430	(D)	-	(D)	
Payroll, all employees -----	409 679	25 420	37 251	55 946	93 127	81 490	116 444	(D)	-	(D)	
Construction worker hours (thousands) -----	21 817	2 180	2 245	2 968	4 546	4 022	5 853	(D)	-	(D)	
All business receipts -----	1 853 343	123 211	157 321	223 922	838 017	(D)	510 872	(D)	-	(D)	
Total construction receipts -----	1 785 660	119 863	148 518	214 167	404 359	397 638	501 114	(D)	-	(D)	
Net construction receipts† -----	1 261 905	98 678	125 514	167 679	303 326	237 841	328 866	(D)	-	(D)	
Value added†† -----	855 164	60 756	88 561	114 248	223 544	158 719	209 335	(D)	-	(D)	
Payments for materials, components, supplies, and fuels -----	455 915	39 746	44 642	58 089	97 827	86 320	129 289	(D)	-	(D)	
Payments for construction work subcontracted to others -----	523 754	21 184	23 004	46 488	101 032	159 797	172 248	(D)	-	(D)	
Rental payments for machinery, equipment, and structures -----	28 527	1 750	4 332	4 311	7 625	6 149	4 359	(D)	-	(D)	
Capital expenditures, other than land -----	26 717	1 910	2 037	3 246	5 552	8 133	5 838	(D)	-	(D)	
End-of-year gross book value of depreciable assets -----	335 903	26 052	32 130	41 596	90 044	74 747	71 332	(D)	-	(D)	
<b>1977</b>											
All employees** -----	20 792	1 982	2 232	3 025	3 946	3 893	3 478	2 237	-	(D)	
Total construction receipts -----	1 329 495	102 488	109 014	175 563	227 772	259 301	291 168	164 189	-	(D)	
Value added†† -----	636 173	53 348	53 903	95 822	118 923	119 460	124 806	69 911	-	(D)	
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** -----	1	6	7	6	1	(W)	(W)	-	-	-	
Net construction receipts† -----	1	7	8	4	(W)	(W)	(W)	-	-	-	
Capital expenditures, other than land -----	2	17	22	8	(W)	(W)	(W)	-	-	-	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

**Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments -----	1 861	223	181	294	452	237	174	150	78	44	27
All employees** -----	18 665	258	288	547	1 563	1 447	1 730	2 813	2 647	3 002	4 370
Payroll, all employees -----	409 679	783	1 920	5 300	19 270	23 227	35 209	60 475	67 639	74 756	121 099
Construction worker hours (thousands) -----	21 817	201	224	486	1 566	1 536	1 817	3 216	3 223	3 718	5 826
All business receipts -----	1 853 343	9 475	(D)	21 499	70 410	82 842	128 271	507 591	(D)	1 033 254	(D)
Total construction receipts -----	1 785 660	2 404	6 824	20 659	68 494	80 512	124 161	224 831	262 048	310 977	684 749
Net construction receipts† -----	1 261 905	2 113	6 374	17 896	60 642	71 006	109 879	185 035	199 524	222 951	386 483
Value added†† -----	855 164	1 380	4 133	10 324	38 742	47 690	73 611	127 866	137 829	157 178	256 408
Payments for materials, components, supplies, and fuels -----	455 915	757	2 386	7 954	22 960	24 990	39 297	65 087	71 847	76 054	144 580
Payments for construction work subcontracted to others -----	523 754	291	449	2 763	7 852	9 506	14 281	39 795	62 524	88 026	298 266
Rental payments for machinery, equipment, and structures -----	28 527	*15	56	324	1 024	1 871	3 926	4 033	7 385	3 769	6 123
Capital expenditures, other than land -----	26 717	*31	*84	522	990	1 239	1 926	3 887	4 509	4 490	9 037
End-of-year gross book value of depreciable assets -----	335 903	677	1 756	6 702	13 540	15 763	29 707	41 769	46 670	59 469	119 848
1977											
All employees** -----	20 792	(S)	204	826	1 723	1 840	2 386	3 622	2 234	17 703	(NA)
Total construction receipts -----	1 329 495	(S)	4 045	22 321	64 404	83 213	124 759	213 154	155 900	1659 358	(NA)
Value added†† -----	636 173	(S)	2 367	13 549	34 660	46 462	62 948	117 316	75 918	1281 462	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	12	16	12	9	10	8	2	(W)	(W)	(W)
Net construction receipts† -----	1	14	14	11	9	10	8	2	(W)	(W)	(W)
Capital expenditures, other than land -----	2	46	53	27	27	24	23	1	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

\*Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.



**Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction <sup>1</sup>	Maintenance and repair			
	A	B	C	A	B	C
<b>1982</b>						
<b>Total construction receipts†</b> .....	<b>1 785 660</b>	<b>1 518 921</b>	<b>266 738</b>	<b>1</b>	<b>1</b>	<b>3</b>
<b>Building construction</b> .....	<b>1 398 867</b>	<b>1 205 103</b>	<b>193 764</b>	<b>1</b>	<b>1</b>	<b>2</b>
Single-family houses .....	264 946	214 585	50 361	4	4	6
Single-family houses, detached .....	223 310	182 790	40 520	4	4	8
Single-family houses, attached .....	41 636	31 795	9 841	5	6	7
Apartment buildings with two or more apartments .....	200 774	183 791	16 983	2	2	8
Other residential buildings .....	187 748	165 084	22 664	1	1	4
Office and bank buildings .....	302 599	273 855	28 744	1	2	2
Office buildings .....	247 021	229 118	17 903	2	2	2
Bank buildings and other financial institutions .....	55 577	44 736	10 841	1	1	4
Industrial buildings and warehouses .....	132 244	110 564	21 679	2	2	5
Industrial buildings .....	103 767	87 092	16 675	2	2	6
Warehouses .....	28 476	23 472	5 003	5	6	9
Stores, restaurants, public garages, and automobile service stations .....	116 938	94 833	22 104	3	2	8
Religious buildings .....	10 384	9 090	1 294	5	6	8
Educational buildings .....	62 876	53 568	9 307	2	3	5
Hospitals and institutional buildings .....	81 762	69 428	12 333	1	1	1
Amusement, social, and recreational buildings .....	14 612	12 115	2 496	2	3	3
Other nonresidential buildings .....	23 979	18 184	5 795	11	8	18
<b>Nonbuilding construction</b> .....	<b>306 727</b>	<b>249 072</b>	<b>57 655</b>	<b>1</b>	<b>2</b>	<b>2</b>
Highways, streets, and related facilities .....	166 789	128 348	38 440	1	2	2
Power and communication transmission lines, towers, and related facilities .....	11 872	11 251	621	1	1	1
Sewers, water mains, and related facilities .....	51 108	41 480	9 627	5	6	7
Sewers, sewer lines, and related facilities .....	30 188	24 470	5 717	9	11	2
Water mains and related facilities .....	20 919	17 009	3 909	3	(W)	18
Pipeline, other than sewer or water lines .....	7 547	7 076	471	(W)	(W)	(W)
Sewage treatment and water treatment plants .....	30 254	29 144	1 109	(W)	(W)	3
Sewage treatment plants .....	28 680	27 714	965	(W)	(W)	(W)
Water treatment plants .....	1 574	1 430	144	2	(W)	22
Other nonbuilding construction .....	39 152	31 767	7 379	4	4	12
<b>Construction work, n.s.k.</b> .....	<b>80 064</b>	<b>64 745</b>	<b>15 318</b>	<b>7</b>	<b>7</b>	<b>9</b>
<b>1977</b>						
<b>Total construction receipts†</b> .....	<b>1 329 495</b>	<b>1 138 028</b>	<b>191 467</b>	<b>1</b>	<b>1</b>	<b>4</b>
<b>Building construction</b> .....	<b>984 470</b>	<b>827 160</b>	<b>157 310</b>	<b>1</b>	<b>1</b>	<b>4</b>
Single-family houses .....	344 888	298 085	46 803	3	3	6
Apartment buildings with two or more apartments .....	217 886	185 442	32 444	4	3	18
Other residential buildings .....	88 414	74 257	14 157	1	1	3
Office and bank buildings .....	69 262	48 999	20 263	3	3	3
Industrial buildings and warehouses .....	56 268	43 402	12 866	3	3	3
Stores, restaurants, public garages, and automobile service stations .....	64 522	52 983	11 539	3	3	5
Religious buildings .....	5 430	4 263	1 167	1	1	1
Educational buildings .....	61 980	55 141	6 839	1	(W)	9
Hospitals and institutional buildings .....	46 618	40 905	5 713	(W)	(W)	2
Amusement, social, and recreational buildings .....	15 938	12 929	3 009	2	2	5
Other nonresidential buildings .....	13 263	10 755	2 508	4	2	21
<b>Nonbuilding construction</b> .....	<b>287 184</b>	<b>257 701</b>	<b>29 483</b>	<b>1</b>	<b>1</b>	<b>3</b>
Highways, streets, and related facilities .....	91 112	76 743	14 369	1	1	1
Bridges, tunnels, and elevated highways .....	19 569	19 547	*22	(W)	(W)	71
Sewers, water mains, and related facilities .....	47 650	46 976	674	2	2	10
Other nonbuilding construction .....	128 853	114 435	14 418	2	2	7
<b>Construction work, n.s.k.</b> .....	<b>57 857</b>	<b>53 143</b>	<b>4 714</b>	<b>9</b>	<b>9</b>	<b>12</b>

<sup>1</sup>Includes data for work done as additions and alterations.



**Table 10. Quarterly Construction Worker Hours and Employment for Establishments With**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers <sup>1</sup>	Hours worked (thousands)	Construction workers <sup>1</sup>	Hours worked (thousands)
		A	B	C	D	E	F	G
	<b>Construction industries and subdividers and developers.....</b>	<b>1 861</b>	<b>13 953</b>	<b>21 817</b>	<b>14 789</b>	<b>5 716</b>	<b>14 317</b>	<b>5 716</b>
15,16, 17	<b>Construction industries:</b>							
15	<b>General building contractors and operative builders:</b>							
152	General contractors, residential buildings:							
1521	Single-family houses .....	359	1 274	1 684	1 201	414	1 200	406
1522	Other residential buildings .....	45	1 389	2 674	1 632	781	1 537	772
1531	Operative builders .....	19	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses .....	12	270	492	259	111	272	127
1542	Nonresidential buildings, n.e.c. ....	124	1 452	2 425	1 529	621	1 447	609
16	<b>Heavy construction general contractors:</b>							
1611	Highway and street construction .....	33	780	1 182	776	294	846	335
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction .....	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines .....	21	378	439	427	138	434	126
1629	Heavy construction, n.e.c. ....	28	225	329	279	100	253	95
17	<b>Special trade contractors:</b>							
1711	Plumbing, heating, and air conditioning .....	183	1 548	2 485	1 601	644	1 617	632
1721	Painting, paper hanging, and decorating .....	143	762	1 136	776	270	737	286
1731	Electrical work .....	197	1 047	1 771	1 078	463	1 050	451
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework .....	77	362	439	486	138	417	140
1742	Plastering, drywall, and insulation work .....	64	683	1 027	781	284	760	298
1743	Terrazzo, tile, marble, and mosaic work .....	25	159	254	151	58	167	65
175	Carpentering and flooring:							
1751	Carpentering .....	118	398	483	441	129	418	134
1752	Floor laying and other floorwork .....	33	127	212	126	50	128	57
1761	Roofing and sheet metal work .....	114	663	924	625	220	648	219
1771	Concrete work .....	47	441	711	482	195	454	183
1781	Water well drilling .....	1	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:							
1791	Structural steel erection .....	23	590	975	571	225	554	233
1793	Glass and glazing work .....	22	213	349	229	95	213	89
1794	Excavating and foundation work .....	39	296	417	310	101	291	107
1795	Wrecking and demolition work .....	3	13	10	19	2	12	2
1796	Installing building equipment, n.e.c. ....	13	333	459	466	140	328	110
1799	Special trade contractors, n.e.c. ....	50	310	528	315	135	310	130
6552	<b>Subdividers and developers, n.e.c. ....</b>	<b>53</b>	<b>94</b>	<b>165</b>	<b>94</b>	<b>46</b>	<b>95</b>	<b>46</b>

<sup>1</sup>Sum of construction workers during pay periods including 12th of March, May, August, and November.

# Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
12 977	5 217	12 915	5 167	1	1	2	2	2	2	2	2	2	2	15,16,17
														15
1 164	401	1 364	461	7	8	7	11	7	11	7	10	12	15	152
1 196	620	1 027	500	1	1	1	1	1	1	(W)	1	1	1	1521
														1522
(S)	(S)	(S)	(S)	—	—	—	—	—	—	—	—	—	—	1531
272	129	274	124	5	5	6	6	5	5	5	6	4	4	154
1 357	584	1 405	610	2	1	4	2	5	3	2	3	1	2	1541
														1542
														16
747	294	725	258	3	3	3	4	2	3	3	4	3	5	1611
														162
—	—	—	—	—	—	—	—	—	—	—	—	—	—	1622
358	100	288	73	2	2	1	2	3	4	3	4	3	6	1623
160	58	200	74	11	11	10	11	16	17	10	15	12	16	1629
														17
1 482	591	1 453	617	5	4	6	6	5	5	6	6	5	5	1711
734	299	754	279	6	7	6	9	7	9	6	9	6	9	1721
1 032	429	968	426	5	5	5	6	5	7	5	6	5	7	1731
														174
272	83	248	77	18	21	23	31	25	33	15	17	18	26	1741
606	220	574	224	2	2	3	4	2	4	2	4	3	4	1742
164	61	150	69	16	16	17	22	15	18	19	22	14	20	1743
														175
303	99	365	118	12	13	16	19	15	20	14	19	13	18	1751
122	53	126	51	14	15	12	20	13	20	14	23	15	24	1752
679	238	660	245	8	8	7	9	7	10	8	10	10	12	1761
438	173	381	158	5	5	6	6	5	6	5	6	6	7	1771
(D)	(D)	(D)	(D)	—	—	—	—	—	—	—	—	—	—	1781
														179
606	254	627	260	8	7	5	6	6	6	8	8	12	11	1791
218	89	180	75	7	7	8	11	8	9	7	9	7	7	1793
(D)	90	(D)	117	8	9	7	10	8	11	—	11	—	10	1794
(D)	2	(D)	3	(W)	(W)	(W)	(W)	(W)	(W)	—	(W)	—	(W)	1795
259	102	277	106	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	1796
304	135	289	126	10	11	12	16	10	13	10	14	11	13	1799
88	37	83	35	14	15	13	21	14	21	14	22	15	24	6552



**Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

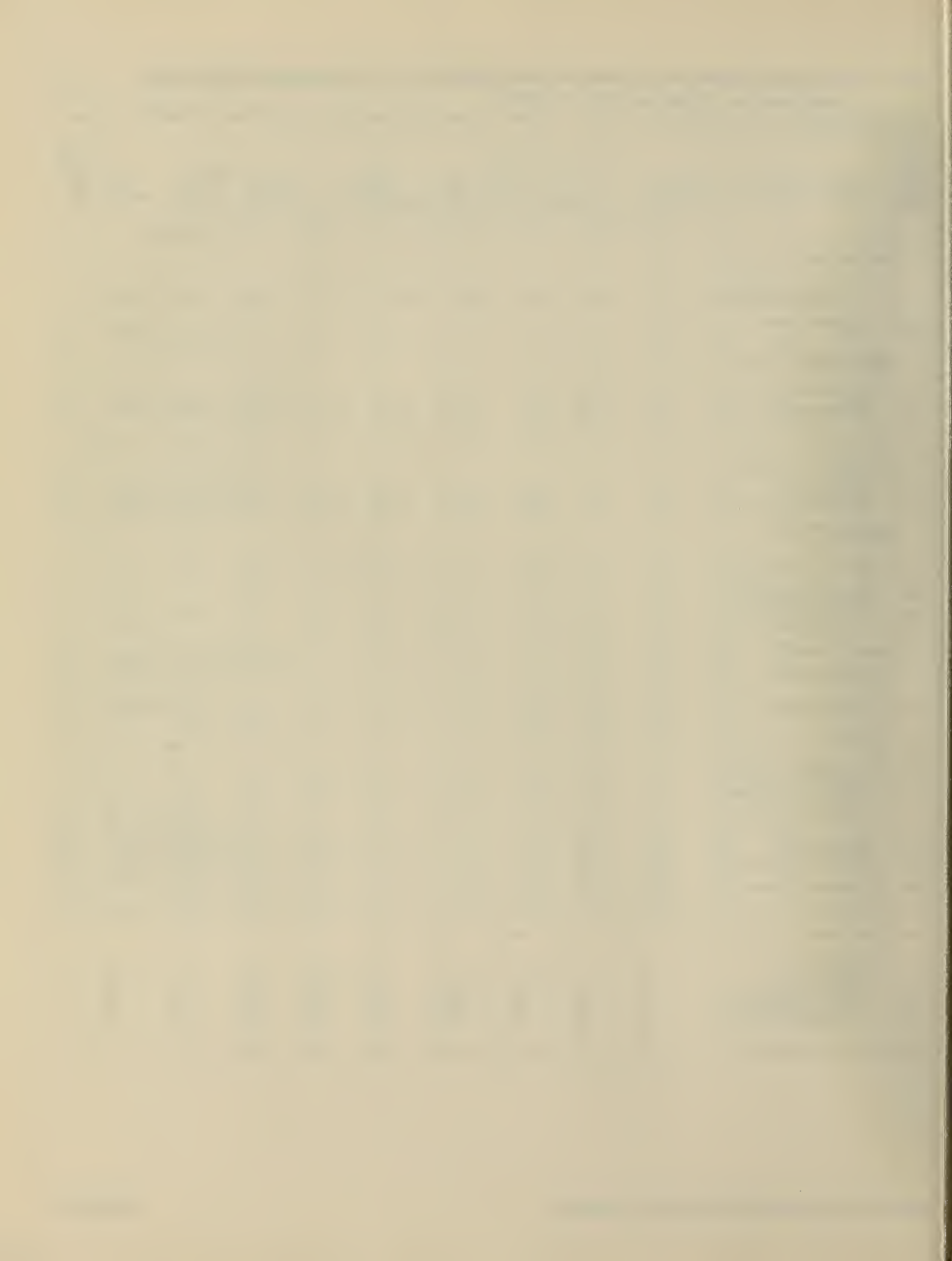
SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	<b>Construction industries and subdividers and developers .....</b>	<b>10.1</b>	<b>22.0</b>	<b>1.6</b>	<b>128.0</b>	<b>.229</b>	<b>.255</b>	<b>.293</b>	<b>.015</b>	<b>.018</b>
15,16, 17	<b>Construction industries:</b>									
15	<b>General building contractors and operative builders:</b>									
152	General contractors, residential buildings:									
1521	Single-family houses .....	4.6	16.0	1.3	103.5	.202	.273	.289	.012	.014
1522	Other residential buildings .....	42.8	27.5	1.9	213.1	.179	.211	.490	.011	.008
1531	Operative builders .....	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses .....	28.1	27.9	1.8	187.3	.186	(D)	.407	.007	.021
1542	Nonresidential buildings, n.e.c. ....	16.6	25.6	1.7	240.0	.151	.178	.569	.015	.012
16	<b>Heavy construction general contractors:</b>									
1611	Highway and street construction .....	29.8	24.4	1.5	138.3	.222	.337	.243	.027	.025
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction .....	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines .....	22.1	19.5	1.2	96.0	.250	.268	.165	.030	.032
1629	Heavy construction, n.e.c. ....	11.5	20.8	1.5	119.5	.249	.170	.304	(D)	.008
17	<b>Special trade contractors:</b>									
1711	Plumbing, heating, and air conditioning .....	11.5	20.7	1.6	87.6	.322	.333	.070	.010	.016
1721	Painting, paper hanging, and decorating .....	6.4	22.3	1.5	67.7	.396	.193	.068	.015	.017
1731	Electrical work .....	6.6	24.8	1.7	107.3	.287	.365	.029	.015	.013
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework .....	5.5	13.3	1.2	47.7	.327	.306	.024	.020	.022
1742	Plastering, drywall, and insulation work .....	13.2	24.0	1.5	92.6	.320	.318	.046	.013	.019
1743	Terrazzo, tile, marble, and mosaic work .....	7.4	21.1	1.6	68.5	.357	.355	(D)	.006	.041
175	Carpentering and flooring:									
1751	Carpentering .....	4.2	17.0	1.2	108.6	.195	.170	.375	.013	.013
1752	Floor laying and other floorwork .....	4.9	21.9	1.7	(D)	(D)	(D)	(D)	(D)	(D)
1761	Roofing and sheet metal work .....	8.3	17.3	1.4	79.4	.311	.400	.052	.020	.025
1771	Concrete work .....	13.0	21.6	1.6	100.0	.300	.248	(D)	.025	.017
1781	Water well drilling .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:									
1791	Structural steel erection .....	29.3	24.8	1.7	82.7	.343	(D)	.032	.042	.029
1793	Glass and glazing work .....	13.8	22.6	1.6	122.8	.261	.502	.027	.006	.014
1794	Excavating and foundation work .....	9.7	20.4	1.4	100.5	.260	.219	.199	(D)	.094
1795	Wrecking and demolition work .....	(D)	(D)	.8	(D)	(D)	.121	(D)	(D)	.078
1796	Installing building equipment, n.e.c. ....	34.5	24.6	1.4	94.4	.352	.162	.015	(D)	.008
1799	Special trade contractors, n.e.c. ....	6.9	14.0	1.7	66.1	.282	.369	.075	.019	.028
6552	<b>Subdividers and developers, n.e.c. ....</b>	<b>6.1</b>	<b>15.0</b>	<b>1.8</b>	<b>241.7</b>	<b>.213</b>	<b>.181</b>	<b>.439</b>	<b>.009</b>	<b>.009</b>

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>HONOLULU SMSA</b>											
	Construction industries and subdividers and developers..	1 305	15 819	357 044	1 540 385	1 069 923	730 662	382 015	470 462	22 559	2	1
15,16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses .....	218	1 263	20 862	(D)	72 854	51 114	26 804	(D)	1 189	8	8
1522	Other residential buildings .....	26	1 789	49 991	276 146	139 632	81 815	(D)	136 514	(D)	1	2
1531	Operative builders .....	19	307	6 084	56 885	44 733	44 917	(D)	12 152	333	10	2
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	9	289	8 428	46 470	(D)	17 379	(D)	(D)	261	3	-
1542	Nonresidential buildings, n.e.c. ....	103	1 751	45 066	301 219	122 826	77 039	49 507	178 393	4 454	4	1
16	Heavy construction general contractors:											
1611	Highway and street construction .....	16	705	18 501	77 264	57 906	35 082	27 877	19 358	2 642	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines .....	14	337	6 185	23 300	(D)	13 515	6 310	(D)	1 063	4	-
1629	Heavy construction, n.e.c. ....	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning .....	119	1 833	39 087	120 417	111 324	76 132	37 906	9 093	1 206	5	4
1721	Painting, paper hanging, and decorating .....	105	789	18 028	45 079	42 172	33 718	8 688	2 907	775	6	4
1731	Electrical work .....	135	1 017	27 400	94 132	91 408	61 711	33 407	2 725	1 442	5	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	59	350	4 532	13 190	(D)	9 032	3 784	(D)	(D)	20	-
1742	Plastering, drywall, and insulation work .....	47	786	19 037	58 192	55 536	37 686	18 702	2 656	745	3	2
1743	Terrazzo, tile, marble, and mosaic work .....	23	178	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16	-
175	Carpentering and flooring:											
1751	Carpentering .....	82	383	6 793	35 102	20 712	15 290	5 478	14 390	326	12	8
1752	Floor laying and other floorwork .....	22	148	3 351	13 218	(D)	6 799	4 815	(D)	150	12	-
1761	Roofing and sheet metal work .....	86	852	15 010	47 432	44 816	26 901	18 981	2 617	905	10	7
1771	Concrete work .....	46	601	13 122	43 751	(D)	24 704	10 889	(D)	1 114	5	-
1781	Water well drilling .....	1	(D)	(D)	(D)	(D)	(D)	(D)	(S)	(D)	-	-
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	15	596	14 886	41 115	(D)	29 035	(D)	(D)	1 335	8	-
1793	Glass and glazing work .....	19	274	6 196	22 643	(D)	11 832	11 394	(D)	(D)	9	6
1794	Excavating and foundation work .....	20	198	4 199	15 093	(D)	9 132	2 711	(D)	(D)	10	-
1795	Wrecking and demolition work .....	3	(D)	(D)	1 068	(D)	927	129	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. ....	10	(D)	(D)	30 224	(D)	(D)	(D)	(D)	(D)	-	-
1799	Special trade contractors, n.e.c. ....	47	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
6552	Subdividers and developers, n.e.c. ....	39	230	2 997	16 839	(D)	(D)	2 679	(D)	135	10	-





# Oregon

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# SUMMARY OF FINDINGS

During 1982, 20,920 establishments in Oregon operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$3.3 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 14,845 establishments in this State with no payroll accounted for about 13 percent of all business receipts for all construction establishments in Oregon. On the other hand, 6,075 establishments classified as "employers" accounted for 87 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$2.83 billion, of which \$2.75 billion were receipts for construction work. These establishments paid \$714 million for construction work subcontracted to others, leaving net construction receipts of about \$2.0 billion. Value added for these establishments amounted to \$1.3 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Oregon paid \$756 million for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of

\$52.8 million were also made for selected power, fuels, and lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Oregon was 35.6 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 8.5 million hours, while hours worked during the third quarter were 11.0 million hours.

Total payroll for 1982 was \$674 million. Payments of \$133 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Oregon are based on a sample of about 2,408 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.



**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	All business receipts	Number	Proprie- tors and working partners	All business receipts	Number	Proprie- tors and working partners	All em- ployees**	All business receipts		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1982													
	Construction Industries and subdividers and developers.....	20 920	17 227	35 551	3 268 321	14 845	15 055	440 632	6 075	2 172	35 551	2 827 689	2	1
15,16, 17	Construction Industries¹ .....	20 580	16 972	35 349	3 230 573	14 597	14 811	418 026	5 983	2 161	35 349	2 812 547	2	1
15	General building contractors and operative builders .....	6 358	5 119	8 997	1 257 280	4 410	4 449	177 153	1 948	670	8 997	1 080 127	3	2
16	Heavy construction, general contractors ..	1 306	934	6 078	563 024	760	767	36 208	546	167	6 078	526 816	3	3
17	Special trade contractors .....	12 916	10 919	20 274	1 410 269	9 427	9 595	204 665	3 489	1 324	20 274	1 205 604	2	2
1711	Plumbing, heating, and air conditioning.....	1 256	806	3 794	292 039	620	625	27 595	636	181	3 794	264 444	4	2
1731	Electrical work .....	952	607	3 167	241 509	481	487	14 510	471	120	3 167	226 999	4	3
6552	Subdividers and developers, n.e.c.² .....	334	253	196	37 741	248	244	22 606	86	*9	196	15 135	15	25
	1977													
	Construction Industries and subdividers and developers.....	18 564	16 489	45 475	3 073 183	11 291	11 865	375 619	7 273	4 624	45 475	2 697 564	1	1
15,16, 17	Construction Industries¹ .....	18 276	16 165	45 110	3 009 319	11 095	11 590	354 402	7 181	4 575	45 110	2 654 917	1	1
15	General building contractors and operative builders .....	5 777	5 044	13 904	1 344 131	3 194	3 392	208 256	2 583	1 652	13 904	1 135 875	3	3
16	Heavy construction, general contractors ..	1 259	970	7 655	522 138	626	645	23 725	633	325	7 655	498 413	3	2
17	Special trade contractors .....	11 240	10 151	23 551	1 143 050	7 275	7 553	122 421	3 965	2 598	23 551	1 020 629	2	2
1711	Plumbing, heating, and air conditioning.....	907	689	4 501	267 613	321	334	11 820	586	355	4 501	255 793	3	3
1731	Electrical work .....	723	446	4 345	207 350	320	324	10 480	403	122	4 345	196 870	4	3
6552	Subdividers and developers, n.e.c.² .....	294	323	366	63 870	196	275	21 217	98	48	366	42 653	21	20

<sup>1</sup>For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

<sup>2</sup>For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

**Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
<b>1982</b>													
<b>The State</b> .....	20 920	17 227	35 551	3 268 321	14 845	15 055	440 632	6 075	2 172	35 551	2 827 689	2	1
\$10,000,000 or more .....	31	—	5 150	(D)	—	—	—	31	—	5 150	(D)	(W)	—
\$5,000,000 to \$9,999,999 .....	50	3	2 998	(D)	2	2	(D)	48	1	2 998	1 069 215	(W)	(W)
\$2,500,000 to \$4,999,999 .....	109	8	3 593	(D)	2	1	(D)	107	7	3 593	367 976	(W)	(W)
\$1,000,000 to \$2,499,999 .....	333	35	5 261	1 963 012	10	11	31 405	323	24	5 261	494 416	4	5
\$500,000 to \$999,999 .....	467	91	4 453	327 000	35	27	23 576	432	64	4 453	303 424	6	6
\$250,000 to \$499,999 .....	911	362	4 857	319 196	138	136	47 454	773	226	4 857	271 742	7	5
\$100,000 to \$249,999 .....	1 970	1 157	4 498	304 711	651	681	96 627	1 319	476	4 498	208 084	5	5
\$50,000 to \$99,999 .....	2 331	1 836	2 161	162 266	1 306	1 397	88 645	1 025	439	2 161	73 621	7	6
\$25,000 to \$49,999 .....	2 753	2 420	1 063	96 094	2 077	2 133	71 905	676	287	1 063	24 189	8	7
Less than \$25,000 .....	11 962	11 314	1 515	96 040	10 624	10 667	81 020	1 338	647	1 515	15 020	5	6
\$10,000 to \$24,999 .....	(NA)	(NA)	(NA)	(NA)	3 466	3 505	54 712	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	2 468	2 493	16 674	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	2 627	2 625	7 571	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 .....	(NA)	(NA)	(NA)	(NA)	2 063	2 044	2 063	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>1977</b>													
<b>The State</b> .....	18 564	16 489	45 475	3 073 183	11 291	11 865	375 619	7 273	4 624	45 475	2 697 564	1	1
\$10,000,000 or more .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 <sup>2</sup> .....	62	6	6 396	(D)	1	—	(D)	61	6	6 396	591 834	1	1
\$2,500,000 to \$4,999,999 .....	125	30	5 099	1 026 145	3	3	19 051	122	27	5 099	415 260	1	1
\$1,000,000 to \$2,499,999 .....	381	76	7 726	571 778	21	19	32 424	360	57	7 726	539 354	1	3
\$500,000 to \$999,999 .....	613	233	6 587	433 175	60	66	40 442	553	167	6 587	392 733	3	4
\$250,000 to \$499,999 .....	1 046	662	6 128	363 529	144	172	48 701	902	490	6 128	314 828	5	6
\$100,000 to \$249,999 .....	2 307	1 852	6 995	362 503	466	550	70 706	1 841	1 302	6 995	291 797	5	5
\$50,000 to \$99,999 .....	2 232	1 986	3 663	157 177	783	886	53 454	1 449	1 100	3 663	103 723	8	7
\$25,000 to \$49,999 .....	2 371	2 192	1 681	85 212	1 385	1 508	48 518	986	684	1 681	36 694	11	10
Less than \$25,000 .....	9 427	9 452	(S)	73 665	8 428	8 661	62 323	(S)	(S)	(S)	(S)	—	—
\$10,000 to \$24,999 .....	3 140	3 119	683	50 162	2 617	2 731	41 144	523	388	683	9 018	13	13
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	1 971	2 031	13 334	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	2 331	2 369	6 723	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 .....	(NA)	(NA)	(NA)	(NA)	1 509	1 530	1 122	(NA)	(NA)	(NA)	(NA)	1	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

<sup>2</sup>Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.



**Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and subdividers and developers -----	6 075	35 551	28 157	673 683	512 606	38 629	2 751 886	2 038 079
15,16, 17	Construction Industries:								
15	General building contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 165	3 306	2 787	35 062	27 155	3 447	182 868	130 120
1522	Other residential buildings -----	117	416	337	6 959	4 987	431	55 240	26 298
1531	Operative builders -----	211	909	478	15 921	6 589	691	1106 293	73 732
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	102	788	614	15 632	11 567	842	80 671	47 555
1542	Nonresidential buildings, n.e.c. -----	353	3 578	2 664	88 792	61 457	3 862	629 169	235 944
16	Heavy construction general contractors:								
1611	Highway and street construction -----	271	2 386	1 854	46 910	36 933	2 811	226 090	184 667
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	31	488	423	11 739	9 753	591	54 881	42 988
1623	Water, sewer, and utility lines -----	141	2 140	1 941	45 275	39 301	3 257	147 553	133 619
1629	Heavy construction, n.e.c. -----	103	1 064	802	27 840	22 646	1 247	83 950	72 298
17	Special trade contractors:								
1711	Plumbing, heating, and air conditioning-----	636	3 794	2 777	82 867	60 920	4 088	255 820	223 101
1721	Painting, paper hanging, and decorating -----	263	861	782	12 531	11 062	951	34 601	32 828
1731	Electrical work -----	471	3 167	2 415	77 138	59 118	3 471	224 167	218 068
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework -----	151	494	414	7 472	6 406	466	19 391	18 027
1742	Plastering, drywall, and insulation work -----	269	2 380	1 934	42 640	34 910	2 696	105 779	101 871
1743	Terrazzo, tile, marble, and mosaic work -----	21	(D)	455	(D)	6 349	416	(D)	(D)
175	Carpentering and flooring:								
1751	Carpentering -----	315	885	776	8 470	7 026	923	32 533	28 637
1752	Floor laying and other floorwork -----	111	528	344	6 213	4 487	386	21 795	20 766
1761	Roofing and sheet metal work -----	294	1 637	1 309	24 611	19 257	1 621	81 273	78 223
1771	Concrete work -----	308	1 642	1 416	22 242	17 559	1 682	83 398	75 752
1781	Water well drilling -----	59	159	124	2 006	1 523	121	7 157	7 075
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	29	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work -----	44	310	217	7 327	4 770	355	34 899	34 767
1794	Excavating and foundation work -----	255	1 522	1 231	24 942	20 429	1 621	100 475	84 198
1795	Wrecking and demolition work -----	16	(D)	48	(D)	548	93	2 016	1 891
1796	Installing building equipment, n.e.c. -----	62	885	730	23 242	18 126	985	68 260	(D)
1799	Special trade contractors, n.e.c. -----	185	647	539	9 925	7 468	726	(D)	(D)
6552	Subdividers and developers, n.e.c. -----	86	196	86	2 921	768	149	19 023	5 067

†Land receipts for SIC 1531 were \$10,199; for SIC 6552 were \$5,256.

1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub- contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 289 292	809 133	713 807	60 584	45 181	577 121	45 475	2 566 932	1 189 190	2	1	3	15,16, 17
												15
77 375	56 137	52 748	2 008	2 800	27 728	5 579	314 104	111 040	5	6	12	152
14 272	12 290	28 942	250	227	3 127	382	27 866	9 129	15	12	12	1521
												1522
54 926	25 686	32 561	953	1 611	45 894	2 608	245 399	62 643	8	9	23	1531
												154
28 600	19 933	33 115	1 046	856	13 860	2 048	193 727	51 564	14	14	4	1541
139 180	100 934	393 225	6 738	3 320	45 236	3 287	299 791	84 892	3	2	1	1542
												16
120 155	75 369	41 423	9 265	7 842	128 067	3 713	211 914	127 015	5	5	3	1611
												162
21 188	(D)	11 893	1 247	1 770	8 430	246	18 523	8 058	9	9	15	1622
103 536	30 677	13 934	7 576	7 728	52 916	2 331	119 175	70 230	6	3	3	1623
51 067	22 916	11 652	8 547	2 484	15 882	1 365	118 852	65 946	5	5	2	1629
												17
135 783	95 941	32 719	3 993	2 981	35 699	4 501	251 818	132 877	4	3	8	1711
25 486	7 815	*1 773	1 270	1 287	6 163	1 364	42 431	32 176	11	14	40	1721
131 156	89 744	6 099	3 079	2 235	36 058	4 345	191 447	117 135	4	3	7	1731
												174
11 870	(D)	1 363	220	90	4 992	878	37 161	21 477	10	9	34	1741
59 844	45 125	3 908	1 757	1 653	11 773	2 711	96 586	56 928	6	5	7	1742
18 400	(D)	(D)	7	*177	2 251	101	3 141	1 971	-	-	58	1743
												175
17 097	12 870	3 896	582	408	4 110	1 642	44 393	28 234	11	12	27	1751
10 329	11 290	*1 029	162	109	1 835	688	30 830	16 284	20	15	33	1752
44 659	34 238	3 049	1 118	1 701	13 929	2 218	83 286	48 977	9	8	16	1761
46 366	31 510	7 646	2 615	1 082	25 764	1 446	47 707	28 279	11	8	4	1771
4 495	2 591	82	79	28	6 987	240	14 140	8 475	20	17	(W)	1781
												179
(S)	(S)	(S)	(S)	(S)	(S)	253	11 340	5 635	-	-	-	1791
17 808	20 014	*132	427	131	1 910	260	13 475	7 542	14	6	23	1793
62 583	25 551	16 277	3 669	2 702	60 072	1 312	60 707	42 115	9	5	6	1794
1 598	343	*125	108	*27	*1 013	29	1 425	1 182	-	33	47	1795
41 025	20 061	(D)	930	475	5 058	438	20 128	13 975	2	-	4	1796
19 654	12 110	(D)	868	956	6 450	1 125	40 242	24 374	9	-	14	1799
*2 552	*3 370	*3 956	*170	217	6 574	366	27 329	11 044	15	9	11	6552



**Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year .....	6 075	7 273	5 951	4 058	2	3	4	4
Number of establishments in business at end of year .....	5 820	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Proprietors and working partners.....	2 172	4 624	4 042	3 273	5	5	5	6
All employees** .....	35 551	45 475	38 722	30 245	2	1	2	1
Construction workers:								
March.....	25 272	32 901	26 784	22 322	2	2	2	2
May .....	28 292	39 006	31 039	24 570	2	2	3	2
August .....	30 568	41 426	37 158	29 700	2	2	3	2
November .....	25 685	37 663	32 955	26 054	2	2	3	2
Average .....	28 157	37 786	32 662	26 062	2	2	3	1
Other employees:								
March.....	7 347	7 570	5 686	4 073	2	2	3	2
Construction worker hours (thousands):								
January to March .....	8 482	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
April to June .....	9 986	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
July to September .....	11 039	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
October to December .....	9 120	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Total hours worked .....	38 629	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Payroll, all employees .....	673 683	627 123	365 692	229 085	1	1	2	1
Payroll, construction workers .....	512 606	504 366	302 411	193 861	1	1	2	1
Payroll, other employees .....	161 077	122 757	63 281	35 258	1	1	3	2
First quarter payroll, all employees .....	150 531	128 806	(NA)	(NA)	1	1	(NA)	(NA)
Employer costs for fringe benefits .....	132 702	145 842	(NA)	(NA)	1	1	(NA)	(NA)
Legally required expenditures .....	100 869	86 238	(NA)	(NA)	1	1	(NA)	(NA)
Voluntary expenditures .....	31 833	59 604	(NA)	(NA)	2	1	(NA)	(NA)
All business receipts .....	2 827 689	2 697 564	1 517 383	929 256	1	1	2	2
Total construction receipts .....	2 751 886	2 566 932	1 443 701	900 319	1	1	2	2
Receipts for work subcontracted in from others .....	687 770	702 034	296 921	149 370	2	2	4	3
Land receipts <sup>1</sup> .....	15 455	(NA)	(NA)	(NA)	11	(NA)	(NA)	(NA)
Other business receipts .....	60 347	130 632	73 682	29 024	4	4	5	5
Net construction receipts† .....	2 038 079	1 980 424	1 095 033	669 283	1	1	3	2
Value added†† .....	1 289 292	1 189 190	689 878	407 712	1	1	3	1
Selected payments .....	1 522 941	1 454 371	802 532	513 367	1	2	3	2
Materials, components, and supplies <sup>2</sup> .....	756 372	823 188	453 864	282 455	1	2	3	2
Construction work subcontracted to others .....	713 807	586 508	348 668	231 074	2	2	4	3
Selected power, fuels, and lubricants .....	52 761	44 675	(NA)	(NA)	2	2	(NA)	(NA)
Electricity .....	6 656	5 094	(NA)	(NA)	3	3	(NA)	(NA)
Natural gas .....	3 120	2 569	(NA)	(NA)	2	4	(NA)	(NA)
Gasoline and diesel fuel (including gasohol) .....	39 543	30 817	(NA)	(NA)	2	2	(NA)	(NA)
Other, including lubricating oils and greases .....	3 440	6 197	(NA)	(NA)	5	4	(NA)	(NA)
Storage capacity for fuels (thousand gallons) <sup>3</sup> .....	1 034	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures .....	60 584	43 197	(NA)	(NA)	2	1	(NA)	(NA)
For machinery and equipment .....	46 127	36 381	28 198	17 362	2	1	8	2
For structures .....	14 456	6 815	(NA)	(NA)	3	4	(NA)	(NA)
Selected purchased services .....	48 092	45 731	(NA)	(NA)	2	2	(NA)	(NA)
Communication services .....	13 926	10 585	(NA)	(NA)	4	3	(NA)	(NA)
Repairs to structures and related facilities .....	1 856	2 578	(NA)	(NA)	8	7	(NA)	(NA)
Repairs to machinery and equipment .....	32 309	32 569	(NA)	(NA)	2	2	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts .....	2 751 886	2 566 932	1 443 701	900 319	1	1	2	2
Government owned .....	741 111	496 803	441 852	34 989	3	2	5	3
Privately owned .....	2 010 775	2 070 129	1 001 849	550 429	2	2	3	3

<sup>1</sup>Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

<sup>2</sup>For 1967 and 1972, includes data for power, fuels, and lubricants.

<sup>3</sup>Data were collected only for establishments classified as heavy construction contractors.



**Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
<b>STRUCTURES, MACHINERY, AND EQUIPMENT</b>								
Beginning-of-year gross book value of depreciable assets -----	552 337	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	45 181	90 859	43 484	27 013	3	3	7	4
New -----	25 299	64 963	27 817	19 158	4	4	8	4
Used -----	19 882	25 896	15 667	7 855	5	5	8	7
Retirements and disposition of depreciable assets -----	20 397	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	577 121	448 422	245 198	(NA)	3	2	6	(NA)
Depreciation charges during year -----	70 549	46 535	25 090	(NA)	3	4	6	(NA)
<b>Structures, Additions, and Related Facilities</b>								
Beginning-of-year gross book value of depreciable assets -----	98 661	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	4 959	13 005	8 643	6 403	14	12	10	15
New structures and related facilities -----	2 415	11 483	6 237	4 780	4	15	10	9
Used structures and related facilities -----	2 544	1 522	2 406	1 623	28	9	10	22
Retirements and disposition of depreciable assets -----	3 977	(NA)	(NA)	(NA)	19	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	99 643	90 280	54 063	(NA)	6	8	8	(NA)
Depreciation charges during year -----	7 604	6 263	3 184	(NA)	6	30	10	(NA)
<b>Machinery and Equipment</b>								
Beginning-of-year gross book value of depreciable assets -----	453 675	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	40 222	77 854	34 841	20 610	4	4	9	5
New machinery and equipment, including automobiles and trucks -----	22 884	53 480	21 580	14 378	4	4	10	4
New automobiles and trucks, intended primarily for highway use -----	9 017	20 336	(NA)	(NA)	7	5	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	17 338	24 374	13 261	6 232	4	5	9	6
Retirements and disposition of depreciable assets -----	16 419	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	477 478	358 143	191 135	(NA)	3	2	7	(NA)
Depreciation charges during year -----	62 944	40 272	21 906	(NA)	3	2	6	(NA)

**Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number .....	6 075	2
Total construction receipts .....	2 751 886	1
Establishments with inventories:		
Number .....	1 553	9
Total construction receipts .....	1 016 501	2
Inventories <sup>1</sup> :		
End of 1982, total .....	54 165	6
Value for establishments with LIFO reserve .....	1 720	4
Amount of LIFO reserve .....	560	8
Value for establishments with no LIFO reserve .....	52 445	6
End of 1981, total .....	45 949	10
Value for establishments with LIFO reserve .....	2 325	4
Amount of LIFO reserve .....	741	4
Value for establishments with no LIFO reserve .....	43 624	10
Establishments with no inventories:		
Number .....	4 522	2
Total construction receipts .....	1 735 385	1

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.

**Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Establishments with an average of—									
	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1982</b>										
Number of establishments -----	6 075	4 364	934	480	227	39	25	4	1	-
All employees** -----	35 551	7 894	6 107	6 465	6 518	2 654	3 713	2 199	(D)	-
Payroll, all employees -----	673 683	80 089	92 122	116 572	156 422	70 552	111 484	46 441	(D)	-
Construction worker hours (thousands) -----	38 629	7 763	5 643	6 804	7 378	3 392	5 258	2 388	(D)	-
All business receipts -----	2 827 689	426 772	396 660	462 088	1 542 168	(D)	(D)	(D)	(D)	-
Total construction receipts -----	2 751 886	413 658	382 379	449 806	601 134	273 671	631 238	(D)	(D)	-
Net construction receipts† -----	2 038 079	328 931	300 285	360 573	443 596	204 791	399 901	(D)	(D)	-
Value added†† -----	1 289 292	199 515	183 869	229 989	275 762	136 490	263 666	(D)	(D)	-
Payments for materials, components, supplies, and fuels -----	809 133	136 548	125 596	141 384	183 841	78 406	143 357	(D)	(D)	-
Payments for construction work subcontracted to others -----	713 807	84 726	82 093	89 232	157 537	68 880	231 337	-	(D)	-
Rental payments for machinery, equipment, and structures -----	60 584	6 402	7 762	9 890	12 420	6 056	18 052	(D)	(D)	-
Capital expenditures, other than land -----	45 181	5 687	6 779	7 993	8 382	4 923	11 416	(D)	(D)	-
End-of-year gross book value of depreciable assets -----	577 121	117 600	101 005	107 019	125 177	48 280	55 725	22 314	(D)	-
<b>1977</b>										
All employees** -----	45 475	9 398	8 912	8 290	9 693	4 666	2 613	1 904	-	(D)
Total construction receipts -----	2 566 932	450 778	446 886	454 789	611 913	288 584	313 982	(D)	-	(D)
Value added†† -----	1 189 190	201 882	191 386	213 085	297 438	142 924	142 475	(D)	-	(D)
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** -----	2	3	5	5	3	(W)	(W)	(W)	-	-
Net construction receipts† -----	1	4	5	4	2	(W)	(W)	(W)	-	-
Capital expenditures, other than land -----	3	12	13	12	4	(W)	(W)	(W)	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

**Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1982											
Number of establishments -----	6 075	1 338	676	1 025	1 319	773	432	323	107	48	31
All employees** -----	35 551	1 515	1 063	2 161	4 498	4 857	4 453	5 261	3 593	2 998	5 150
Payroll, all employees -----	673 683	3 780	5 774	18 367	51 858	70 542	78 637	121 508	94 665	76 859	151 693
Construction worker hours (thousands) -----	38 629	1 191	870	1 941	4 452	4 751	4 527	5 975	4 439	3 665	6 813
All business receipts -----	2 827 689	15 020	24 189	73 621	208 084	271 742	303 424	494 416	367 976	1 069 215	6 813
Total construction receipts -----	2 751 886	14 565	23 706	71 270	203 358	262 976	292 013	480 992	354 167	327 959	720 878
Net construction receipts† -----	2 038 079	12 283	20 527	63 167	182 665	221 901	241 307	370 373	276 527	225 735	423 591
Value added†† -----	1 289 292	7 318	12 197	38 441	108 820	139 312	150 158	236 196	173 875	137 033	285 938
Payments for materials, components, supplies, and fuels -----	809 133	5 253	8 557	26 550	76 665	88 915	99 817	143 643	114 920	97 076	147 735
Payments for construction work subcontracted to others -----	713 807	2 281	3 179	8 103	20 693	41 074	50 706	110 619	77 640	102 224	297 287
Rental payments for machinery, equipment, and structures -----	60 584	360	440	1 180	3 633	4 900	6 448	10 317	7 567	8 996	16 740
Capital expenditures, other than land -----	45 181	133	368	870	3 557	4 904	5 398	8 280	4 621	4 193	12 853
End-of-year gross book value of depreciable assets -----	577 121	5 262	8 704	21 086	59 469	78 336	67 108	122 337	69 869	60 016	84 932
1977											
All employees** -----	45 475	(S)	1 681	3 663	6 995	6 128	6 587	7 726	5 099	16 396	(NA)
Total construction receipts -----	2 566 932	(S)	36 023	100 945	281 375	302 135	377 429	514 074	389 162	1 554 704	(NA)
Value added†† -----	1 189 190	(S)	20 579	55 452	140 966	136 237	178 299	242 560	175 284	1 233 930	(NA)
1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	2	5	8	7	5	7	6	4	(W)	(W)	(W)
Net construction receipts† -----	1	6	7	5	5	6	6	4	(W)	(W)	(W)
Capital expenditures, other than land -----	3	24	27	16	15	18	19	5	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

†Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.



**Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction <sup>1</sup>	Maintenance and repair			
	A	B	C	A	B	C
<b>1982</b>						
<b>Total construction receipts†</b> .....	<b>2 751 886</b>	<b>2 254 979</b>	<b>496 906</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Building construction</b> .....	<b>1 870 985</b>	<b>1 551 793</b>	<b>319 192</b>	<b>1</b>	<b>1</b>	<b>2</b>
Single-family houses .....	438 883	333 452	105 431	4	4	5
Single-family houses, detached .....	381 832	285 946	95 885	5	5	6
Single-family houses, attached .....	57 051	47 505	9 545	6	7	15
Apartment buildings with two or more apartments .....	76 544	61 495	15 049	8	9	9
Other residential buildings .....	41 531	35 001	6 529	11	13	5
Office and bank buildings .....	417 438	371 352	46 085	2	1	2
Office buildings .....	372 569	335 766	36 802	1	2	3
Bank buildings and other financial institutions .....	44 868	35 585	9 282	4	6	2
Industrial buildings and warehouses .....	350 885	281 996	68 888	2	3	4
Industrial buildings .....	281 039	222 383	58 655	3	3	5
Warehouses .....	69 845	59 613	10 232	4	3	7
Stores, restaurants, public garages, and automobile service stations .....	206 902	167 517	39 384	4	4	8
Religious buildings .....	22 814	18 915	3 899	10	12	6
Educational buildings .....	103 024	89 472	13 552	4	5	7
Hospitals and institutional buildings .....	146 733	133 808	12 925	3	3	5
Amusement, social, and recreational buildings .....	19 576	18 056	1 519	4	4	9
Other nonresidential buildings .....	46 650	40 723	5 925	6	7	25
<b>Nonbuilding construction</b> .....	<b>718 868</b>	<b>572 355</b>	<b>146 512</b>	<b>2</b>	<b>2</b>	<b>5</b>
Highways, streets, and related facilities .....	286 663	205 650	81 012	3	4	9
Bridges, tunnels, and elevated highways .....	76 963	63 482	13 481	7	7	4
Marine construction .....	22 260	15 923	6 336	8	11	4
Power and communication transmission lines, towers, and related facilities .....	95 389	87 168	8 220	3	3	5
Sewers, water mains, and related facilities .....	87 251	75 862	11 388	5	4	9
Sewers, sewer lines, and related facilities .....	52 350	44 902	7 448	6	7	13
Water mains and related facilities .....	34 900	30 959	3 940	5	6	4
Pipeline, other than sewer or water lines .....	11 801	10 799	1 002	(W)	(W)	(W)
Sewage treatment and water treatment plants .....	31 328	28 686	2 642	6	6	17
Sewage treatment plants .....	11 075	8 901	2 174	16	19	8
Water treatment plants .....	20 252	19 785	*467	4	2	68
Heavy industrial facilities .....	42 701	36 085	6 615	2	3	7
Other nonbuilding construction .....	64 505	48 693	15 808	12	13	23
<b>Construction work, n.s.k.</b> .....	<b>162 032</b>	<b>130 830</b>	<b>31 202</b>	<b>5</b>	<b>5</b>	<b>7</b>
<b>1977</b>						
<b>Total construction receipts†</b> .....	<b>2 566 932</b>	<b>2 201 979</b>	<b>364 954</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Building construction</b> .....	<b>1 848 978</b>	<b>1 577 210</b>	<b>271 768</b>	<b>2</b>	<b>2</b>	<b>2</b>
Single-family houses .....	788 357	671 675	116 682	3	4	5
Apartment buildings with two or more apartments .....	122 500	107 134	15 366	6	7	5
Other residential buildings .....	36 931	30 005	6 926	3	3	8
Office and bank buildings .....	116 986	95 340	21 646	3	4	5
Industrial buildings and warehouses .....	377 601	318 803	58 798	2	2	3
Stores, restaurants, public garages, and automobile service stations .....	132 588	107 183	25 405	5	6	4
Religious buildings .....	22 592	19 165	3 427	4	5	9
Educational buildings .....	121 599	110 869	10 730	2	2	5
Hospitals and institutional buildings .....	97 462	89 842	7 620	3	4	2
Other nonresidential buildings .....	32 362	27 194	5 168	6	6	17
<b>Nonbuilding construction</b> .....	<b>579 441</b>	<b>501 834</b>	<b>77 607</b>	<b>2</b>	<b>1</b>	<b>5</b>
Highways, streets, and related facilities .....	208 477	172 642	35 835	2	2	3
Bridges, tunnels, and elevated highways .....	21 075	19 190	1 885	2	2	5
Dam and reservoir construction .....	7 713	6 819	894	1	1	3
Marine construction .....	28 422	24 769	3 653	4	4	5
Power and communication transmission lines, towers, and related facilities .....	26 767	23 415	3 352	5	5	8
Sewers, water mains, and related facilities .....	96 608	90 143	6 465	6	6	13
Sewage treatment and water treatment plants .....	52 229	51 760	469	2	2	1
Heavy industrial facilities .....	40 586	30 799	9 787	8	(W)	35
Other nonbuilding construction .....	97 564	82 297	15 267	3	3	7
<b>Construction work, n.s.k.</b> .....	<b>138 542</b>	<b>122 793</b>	<b>15 749</b>	<b>5</b>	<b>5</b>	<b>6</b>

<sup>1</sup>Includes data for work done as additions and alterations.



**Table 10. Quarterly Construction Worker Hours and Employment for Establishments With**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers <sup>1</sup>	Hours worked (thousands)	Construction workers <sup>1</sup>	Hours worked (thousands)
		A	B	C	D	E	F	G
	<b>Construction industries and subdividers and developers</b> -----	6 075	28 157	38 629	25 272	8 482	28 292	9 986
15,16,17	<b>Construction Industries:</b>							
15	<b>General building contractors and operative builders:</b>							
152	General contractors, residential buildings:							
1521	Single-family houses	1 165	2 787	3 447	2 642	831	2 756	887
1522	Other residential buildings	117	337	431	282	88	303	96
1531	Operative builders	211	478	691	482	182	495	178
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses	102	614	842	617	202	731	267
1542	Nonresidential buildings, n.e.c.	353	2 664	3 862	2 556	921	2 699	1 009
16	<b>Heavy construction general contractors:</b>							
1611	Highway and street construction	271	1 854	2 811	1 205	431	1 849	708
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction	31	423	591	362	125	386	151
1623	Water, sewer, and utility lines	141	1 941	3 257	1 641	640	1 790	795
1629	Heavy construction, n.e.c.	103	802	1 247	745	243	789	288
17	<b>Special trade contractors:</b>							
1711	Plumbing, heating, and air conditioning	636	2 777	4 088	2 817	995	2 852	1 051
1721	Painting, paper hanging, and decorating	263	782	951	690	205	848	287
1731	Electrical work	471	2 415	3 471	2 380	856	2 421	873
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework	151	414	466	371	104	426	130
1742	Plastering, drywall, and insulation work	269	1 934	2 696	1 693	573	2 011	736
1743	Terrazzo, tile, marble, and mosaic work	21	455	416	264	53	(D)	119
175	Carpentering and flooring:							
1751	Carpentering	315	776	923	730	233	741	240
1752	Floor laying and other floorwork	111	344	386	325	93	357	105
1761	Roofing and sheet metal work	294	1 309	1 621	1 235	383	1 211	394
1771	Concrete work	308	1 416	1 682	1 034	306	1 589	484
1781	Water well drilling	59	124	121	102	*31	111	*31
179	Miscellaneous special trade contractors:							
1791	Structural steel erection	29	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work	44	217	355	229	85	206	80
1794	Excavating and foundation work	255	1 231	1 621	949	287	1 268	418
1795	Wrecking and demolition work	16	48	93	37	*18	41	21
1796	Installing building equipment, n.e.c.	62	730	985	661	224	643	224
1799	Special trade contractors, n.e.c.	185	533	776	463	152	561	200
6552	<b>Subdividers and developers, n.e.c.</b> -----	86	86	149	66	30	30	42

<sup>1</sup>Sum of construction workers during pay periods including 12th of March, May, August, and November.

# Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)	B	C	D	E	F	G	H	I	J	K	
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
30 568	11 039	25 685	9 120	2	2	2	2	2	2	2	2	2	2	15,16, 17
														15
2 695 389	902 144	2 487 308	826 102	6 15	7 16	6 12	9 18	6 15	9 20	6 21	10 28	7 12	10 18	152 1521 1522
454	178	390	151	9	9	11	15	10	13	9	13	9	13	1531
547 2 889	196 1 012	546 2 365	176 918	14 3	13 3	16 4	16 3	16 4	17 4	14 4	15 3	15 5	15 6	154 1541 1542
														16
2 489	1 041	1 738	630	5	5	5	7	6	7	6	6	5	7	1611
														162
485 2 305 918	182 964 400	442 1 979 711	132 856 314	9 6 5	8 3 5	7 6 5	9 3 8	9 4 6	10 3 7	9 8 5	9 4 7	10 7 6	12 3 8	1622 1623 1629
														17
2 725	1 084	2 477	956	4	3	3	5	4	5	4	5	5	7	1711
839	279	609	178	11	13	11	17	12	17	13	17	13	18	1721
2 387	893	2 290	847	4	4	4	5	5	5	4	5	4	5	1731
														174
429 2 270 (D)	134 808 123	306 1 619 (D)	96 578 120	10 5 7	11 5 12	12 5 12	18 6 14	10 4 —	17 5 15	12 7 —	18 8 14	10 7 —	20 8 15	1741 1742 1743
														175
777 314	244 97	694 313	205 88	11 15	13 17	12 17	18 26	12 17	17 23	11 16	17 22	15 16	19 24	1751 1752
1 334	437	1 289	406	9	9	9	12	9	11	10	11	11	12	1761
1 774	551	1 111	340	13	11	13	14	11	10	22	17	10	12	1771
123	*30	113	*28	19	27	19	41	19	42	21	41	22	46	1781
														179
(S)	(S)	(S)	(S)	—	—	—	—	—	—	—	—	—	—	1791
200	89	225	99	17	13	21	18	18	17	14	16	15	16	1793
1 482	508	1 127	406	9	9	12	13	10	11	8	9	10	12	1794
53	*27	47	*25	23	36	19	43	18	40	23	43	25	48	1795
851	283	751	252	2	2	1	3	2	4	2	4	2	3	1796
549	204	494	169	9	9	9	13	10	13	9	13	9	14	1799
92	38	89	37	11	14	17	35	10	21	10	24	11	24	6552

**Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	<b>Construction industries and subdividers and developers .....</b>	<b>5.9</b>	<b>19.0</b>	<b>1.4</b>	<b>97.8</b>	<b>.245</b>	<b>.294</b>	<b>.259</b>	<b>.018</b>	<b>.022</b>
15,16,17	<b>Construction industries:</b>									
15	<b>General building contractors and operative builders:</b>									
152	General contractors, residential buildings:									
1521	Single-family houses .....	2.8	10.6	1.2	65.6	.192	.307	.288	.015	.011
1522	Other residential buildings .....	3.6	16.7	1.3	163.9	.126	.222	.524	.004	.005
1531	Operative builders .....	4.3	17.5	1.4	222.4	.150	.242	.306	.015	.009
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses .....	7.7	19.8	1.4	131.4	.194	.247	.410	.011	.013
1542	Nonresidential buildings, n.e.c. ....	10.1	24.8	1.4	236.2	.141	.160	.625	.005	.011
16	<b>Heavy construction general contractors:</b>									
1611	Highway and street construction .....	8.8	19.7	1.5	121.9	.207	.333	.183	.035	.041
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction .....	15.7	24.1	1.4	129.7	.214	(D)	.217	.032	.023
1623	Water, sewer, and utility lines .....	15.2	21.2	1.7	76.0	.307	.208	.094	.052	.051
1629	Heavy construction, n.e.c. ....	10.3	26.2	1.6	104.7	.332	.273	.139	.030	.102
17	<b>Special trade contractors:</b>									
1711	Plumbing, heating, and air conditioning .....	6.0	21.8	1.5	92.1	.324	.375	.128	.012	.016
1721	Painting, paper hanging, and decorating .....	3.3	14.6	1.2	44.2	.362	.226	*.051	.037	.037
1731	Electrical work .....	6.7	24.4	1.4	92.8	.344	.400	.027	.010	.014
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework .....	3.3	15.1	1.1	46.8	.385	(D)	.070	.005	.011
1742	Plastering, drywall, and insulation work .....	8.8	17.9	1.4	54.7	.403	.427	.037	.016	.017
1743	Terrazzo, tile, marble, and mosaic work .....	(D)	(D)	.9	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentering and flooring:									
1751	Carpentering .....	2.8	9.6	1.2	41.9	.260	.396	.120	.013	.018
1752	Floor laying and other floorwork .....	4.8	11.8	1.1	63.4	.285	.518	*.047	.005	.007
1761	Roofing and sheet metal work .....	5.6	15.0	1.2	62.1	.303	.421	.038	.021	.014
1771	Concrete work .....	5.3	13.5	1.2	58.9	.267	.378	.092	.013	.031
1781	Water well drilling .....	2.7	12.6	1.0	57.7	.280	.362	.011	.004	.011
179	Miscellaneous special trade contractors:									
1791	Structural steel erection .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work .....	7.0	23.6	1.6	160.8	.210	.573	*.004	.004	.012
1794	Excavating and foundation work .....	6.0	16.4	1.3	81.6	.248	.254	.162	.027	.037
1795	Wrecking and demolition work .....	(D)	(D)	1.9	(D)	(D)	.170	*.062	*.013	.054
1796	Installing building equipment, n.e.c. ....	14.3	26.3	1.3	93.5	.340	.294	(D)	.007	.014
1799	Special trade contractors, n.e.c. ....	3.5	15.3	1.3	(D)	(D)	(D)	(D)	(D)	(D)
6552	<b>Subdividers and developers, n.e.c. ....</b>	<b>2.3</b>	<b>14.9</b>	<b>1.7</b>	<b>104.9</b>	<b>.324</b>	<b>*.373</b>	<b>*.438</b>	<b>.024</b>	<b>*.019</b>



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>PORTLAND, OREG.-WASH., SMSA</b>											
	Construction Industries and subdividers and developers ..	2 950	21 708	461 176	1 823 072	1 323 108	838 054	512 845	499 964	28 211	1	1
15,16, 17	Construction Industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses .....	507	1 653	19 306	(D)	(D)	41 999	(D)	33 699	1 067	6	—
1522	Other residential buildings .....	53	202	3 947	34 490	15 768	9 501	6 360	18 722	139	10	13
1531	Operative builders .....	120	578	10 223	68 599	46 912	31 760	18 109	21 687	793	9	12
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	51	483	10 198	50 334	27 686	15 486	(D)	22 648	595	11	11
1542	Nonresidential buildings, n.e.c. ....	184	2 290	62 660	458 818	157 061	90 768	67 442	301 758	2 154	4	3
16	Heavy construction general contractors:											
1611	Highway and street construction .....	74	1 170	27 973	114 420	99 311	58 781	43 022	15 109	4 446	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	8	*60	*1 750	*7 101	*5 034	(D)	(D)	*2 067	*272	53	49
1623	Water, sewer, and utility lines .....	55	1 278	33 590	109 931	98 787	80 949	18 210	11 144	6 529	3	2
1629	Heavy construction, n.e.c. ....	37	795	23 629	68 850	59 397	43 210	17 030	9 453	1 825	4	3
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning .....	315	2 230	54 579	156 142	136 054	83 341	56 096	20 088	2 058	4	3
1721	Painting, paper hanging, and decorating .....	153	622	10 325	25 650	24 799	19 534	5 623	851	(S)	12	13
1731	Electrical work .....	208	1 850	50 467	143 452	139 225	86 074	56 216	4 227	1 032	4	2
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	81	401	6 828	17 593	16 265	11 285	(D)	1 328	115	11	9
1742	Plastering, drywall, and insulation work .....	143	1 835	35 934	83 226	79 834	47 416	35 092	3 392	1 186	5	6
1743	Terrazzo, tile, marble, and mosaic work .....	*5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(S)	—	—
175	Carpentering and flooring:											
1751	Carpentering .....	169	527	4 846	20 807	16 452	9 680	7 447	4 355	*232	16	16
1752	Floor laying and other floorwork .....	64	389	5 554	19 633	18 897	9 452	10 311	*736	*32	16	14
1761	Roofing and sheet metal work .....	152	935	16 812	55 370	53 056	29 763	23 747	2 314	1 133	10	8
1771	Concrete work .....	191	888	11 829	41 275	38 291	23 618	15 192	2 985	456	11	8
1781	Water well drilling .....	17	48	608	2 531	2 503	1 416	1 092	28	—	29	28
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	20	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	—	—
1793	Glass and glazing work .....	16	178	5 236	28 060	28 004	14 199	16 573	*56	114	10	4
1794	Excavating and foundation work .....	98	732	12 945	54 184	44 008	32 428	12 026	10 176	1 466	10	6
1795	Wrecking and demolition work .....	4	(D)	(D)	318	301	279	44	17	—	—	(W)
1796	Installing building equipment, n.e.c. ....	28	646	18 760	55 619	(D)	32 593	17 328	(D)	418	1	—
1799	Special trade contractors, n.e.c. ....	138	550	8 772	26 130	25 278	16 281	9 738	852	794	11	10
6552	Subdividers and developers, n.e.c. ....	64	200	2 964	9 365	5 301	2 730	*3 416	*4 064	128	15	12



# Washington

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# SUMMARY OF FINDINGS

During 1982, 28,999 establishments in Washington operated primarily as general contractors or operative builders, special trade contractors, or subdividers and developers. These establishments had business receipts of \$7.7 billion.

Tables 1 and 2 of this report provide summary statistics for all establishments, establishments with paid employees, and for those with no payroll.

The 18,512 establishments in this State with no payroll accounted for about 9 percent of all business receipts for all construction establishments in Washington. On the other hand, 10,487 establishments classified as "employers" accounted for 91 percent of all business receipts.

Tables 3 through 12 in this report provide considerably more detailed information for employers. In 1982, all business receipts for these establishments amounted to \$7.0 billion, of which \$6.8 billion were receipts for construction work. These establishments paid \$1.6 billion for construction work subcontracted to others, leaving net construction receipts of about \$5.2 billion. Value added for these establishments amounted to \$3.4 billion. (See Introduction and appendixes for explanation of terms.)

Construction establishments with payroll located in Washington paid \$1.9 billion for materials, components, and supplies purchased for use in construction work for others; purchased and subsequently provided to subcontractors for their use; purchased and then resold to others; and purchased and used in construction work for own account. However, materials furnished to contractors by owners of projects are not included. Payments of \$114 million were also made for selected power,

fuels, and lubricants purchased during the year from other companies or received from other establishments of the parent company.

Average employment during 1982 for construction establishments with payroll in Washington was 77.7 thousand employees. Hours worked by construction workers during the first quarter of 1982 were 21.9 million hours, while hours worked during the third quarter were 23.8 million hours.

Total payroll for 1982 was \$1.7 million. Payments of \$317 million for employer costs for fringe benefits (not included in payroll) represent such expenditures during the year as employers' Social Security contributions, unemployment compensation, pension plans, and welfare plans.

The 1982 estimates for establishments with payroll are based on a probability sample of about 172,000 construction establishments in the United States. The estimates for Washington are based on a sample of about 4,865 of these establishments. Statistics for the nonemployers were based on administrative records of the Federal Government.

The statistics reported by each establishment cover all of its activities, not just construction. Therefore, aggregates of such data for a State reflect not only the primary construction activities of the establishments in the State, but also their secondary construction activities, and any nonconstruction activities.

All data shown are based on current dollars for the years specified and have not been adjusted for price changes or for inflation between 1977 and 1982.

**Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	All business receipts		Proprie- tors and working partners	All business receipts		Proprie- tors and working partners	All em- ployees**	All business receipts		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1982													
	Construction Industries and subdividers and developers-----	28 999	22 803	77 690	7 696 606	18 512	18 972	686 565	10 487	3 831	77 690	7 010 041	1	1
15,16, 17	Construction Industries¹-----	28 263	22 042	77 281	7 595 525	17 925	18 222	612 730	10 338	3 820	77 281	6 982 795	1	1
15	General building contractors and operative builders-----	9 249	6 991	21 628	3 011 242	5 677	5 740	307 457	3 572	1 251	21 628	2 703 785	2	1
16	Heavy construction, general contractors _	1 660	1 080	16 356	1 762 621	943	942	30 604	717	138	16 356	1 732 017	1	1
17	Special trade contractors-----	17 354	13 971	39 297	2 821 662	11 305	11 540	274 669	6 049	2 431	39 297	2 546 993	1	1
1711	Plumbing, heating, and air conditioning-----	1 678	1 012	7 245	635 148	756	760	28 384	922	252	7 245	606 764	2	1
1731	Electrical work-----	1 509	963	9 251	731 339	733	741	25 787	776	222	9 251	705 552	3	1
8552	Subdividers and developers, n.e.c.²-----	727	757	400	101 071	587	750	73 835	140	7	400	27 236	11	12
	1977													
	Construction Industries and subdividers and developers-----	24 660	21 276	84 829	5 616 041	13 281	14 088	415 361	11 379	7 188	84 829	5 200 680	1	1
15,16, 17	Construction Industries¹-----	24 185	20 696	84 058	5 514 089	12 921	13 573	383 120	11 264	7 123	84 058	5 130 969	1	1
15	General building contractors and operative builders-----	8 317	6 934	27 824	2 526 662	3 705	3 980	217 545	4 612	2 954	27 824	2 309 117	2	2
16	Heavy construction, general contractors _	1 632	1 196	16 475	1 073 468	787	810	19 767	845	386	16 475	1 053 701	2	1
17	Special trade contractors-----	14 238	12 566	39 759	1 913 959	8 429	8 783	145 808	5 807	3 783	39 759	1 768 151	1	1
1711	Plumbing, heating, and air conditioning-----	1 360	905	8 301	494 221	570	594	14 784	790	311	8 301	479 437	2	2
1731	Electrical work-----	1 296	992	7 738	373 135	506	518	12 190	790	474	7 738	360 945	3	3
6552	Subdividers and developers, n.e.c.²-----	481	580	772	101 955	360	515	32 241	121	65	772	69 714	15	16

<sup>1</sup>For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

<sup>2</sup>For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.



**Table 2. Summary Statistics for Establishments With and Without Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Receipts size	All establishments				Establishments without payroll <sup>1</sup>			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	All business receipts	Number	Proprietors and working partners	All business receipts	Number	Proprietors and working partners	All employees**	All business receipts		
	A	B	C	D	E	F	G	H	I	J	K	J	K
<b>1982</b>													
<b>The State</b> .....	28 999	22 803	77 690	7 696 606	18 512	18 972	686 565	10 487	3 831	77 690	7 010 041	1	1
\$10,000,000 or more .....	102	26	21 149	(D)	1	—	(D)	101	26	21 149	2 956 739	(W)	(W)
\$5,000,000 to \$9,999,999 .....	121	14	6 940	3 798 664	3	4	31 902	118	10	6 940	810 023	(W)	(W)
\$2,500,000 to \$4,999,999 .....	220	20	6 963	760 433	8	8	46 732	212	12	6 963	733 543	(W)	(W)
\$1,000,000 to \$2,499,999 .....	616	65	10 714	955 183	26	34	39 206	590	31	10 714	915 977	2	3
\$500,000 to \$999,999 .....	877	198	7 919	600 273	74	82	51 032	803	116	7 919	549 241	4	4
\$250,000 to \$499,999 .....	1 589	587	8 225	555 023	229	228	78 281	1 360	359	8 225	476 742	4	4
\$100,000 to \$249,999 .....	3 354	2 058	8 076	522 873	992	1 075	148 278	2 362	983	8 076	374 595	4	4
\$50,000 to \$99,999 .....	3 428	2 664	3 516	243 506	1 737	1 862	120 329	1 691	802	3 516	123 177	6	4
\$25,000 to \$49,999 .....	4 017	3 381	2 010	141 651	2 710	2 815	94 309	1 307	566	2 010	47 342	7	5
Less than \$25,000 .....	14 673	13 788	2 176	118 998	12 732	12 864	96 338	1 941	924	2 176	22 660	4	4
\$10,000 to \$24,999 .....	(NA)	(NA)	(NA)	(NA)	4 078	4 169	65 205	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	2 876	2 884	19 514	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	3 169	3 176	9 010	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 .....	(NA)	(NA)	(NA)	(NA)	2 609	2 635	2 609	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>1977</b>													
<b>The State</b> .....	24 660	21 276	84 829	5 616 041	13 281	14 088	415 361	11 379	7 188	84 829	5 200 680	1	1
\$10,000,000 or more .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000,000 to \$9,999,999 <sup>2</sup> .....	159	30	22 127	1 835 184	—	—	—	159	30	22 127	1 835 184	(W)	1
\$2,500,000 to \$4,999,999 .....	196	33	8 774	670 846	3	1	7 924	193	32	8 774	662 922	1	2
\$1,000,000 to \$2,499,999 .....	661	142	13 598	981 724	20	25	28 492	641	117	13 598	953 232	1	2
\$500,000 to \$999,999 .....	863	338	9 494	595 649	85	99	58 607	778	239	9 494	537 242	2	3
\$250,000 to \$499,999 .....	1 702	1 011	10 810	589 365	151	183	51 999	1 551	828	10 810	537 366	4	4
\$100,000 to \$249,999 .....	3 353	2 537	10 917	529 583	505	593	76 378	2 848	1 944	10 917	453 205	4	4
\$50,000 to \$99,999 .....	3 003	2 614	4 654	210 895	896	1 029	60 796	2 107	1 585	4 654	150 099	7	6
\$25,000 to \$49,999 .....	3 117	2 892	2 280	110 596	1 669	1 830	58 220	1 448	1 062	2 280	52 376	9	8
Less than \$25,000 .....	11 606	11 680	(S)	91 999	9 952	10 328	72 945	(S)	(S)	(S)	(S)	—	—
\$10,000 to \$24,999 .....	4 039	3 954	(S)	63 570	3 090	3 243	48 010	(S)	(S)	(S)	(S)	—	—
\$5,000 to \$9,999 .....	(NA)	(NA)	(NA)	(NA)	2 407	2 505	16 331	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 .....	(NA)	(NA)	(NA)	(NA)	2 544	2 609	7 288	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 .....	(NA)	(NA)	(NA)	(NA)	1 911	1 971	1 316	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

<sup>1</sup>For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

<sup>2</sup>Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately.

**Table 3. General Statistics for Establishments With Payroll by Industry: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1982							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	<b>Construction industries and subdividers and developers -----</b>	<b>10 487</b>	<b>77 690</b>	<b>61 087</b>	<b>1 703 842</b>	<b>1 315 192</b>	<b>89 448</b>	<b>6 834 101</b>	<b>5 239 452</b>
15,16, 17	<b>Construction industries:</b>								
15	<b>General building contractors and operative builders:</b>								
152	General contractors, residential buildings:								
1521	Single-family houses -----	2 172	7 198	5 875	89 274	66 516	6 877	507 511	395 448
1522	Other residential buildings -----	195	561	454	9 662	7 421	715	78 122	44 950
1531	Operative builders -----	390	2 353	1 385	40 301	15 450	2 052	1309 814	207 852
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	197	2 233	1 697	52 219	36 715	2 486	293 383	146 026
1542	Nonresidential buildings, n.e.c. -----	618	9 283	7 020	242 141	176 983	10 840	1 440 864	644 869
16	<b>Heavy construction general contractors:</b>								
1611	Highway and street construction -----	265	4 212	3 475	100 252	81 304	5 259	389 952	327 581
1622	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	20	1 137	955	26 078	20 995	1 450	111 758	92 624
1623	Water, sewer, and utility lines -----	232	3 150	2 519	69 784	52 846	3 965	228 019	193 128
1629	Heavy construction, n.e.c. -----	200	7 857	6 526	253 315	223 859	12 495	972 283	877 266
17	<b>Special trade contractors:</b>								
1711	Plumbing, heating, and air conditioning -----	922	7 245	5 206	170 336	127 130	7 900	586 535	494 252
1721	Painting, paper hanging, and decorating -----	468	1 911	1 614	31 352	24 885	2 050	75 133	71 366
1731	Electrical work -----	776	9 251	6 804	251 357	192 218	11 255	696 125	680 337
174	Masonry, plastering, and tile setting:								
1741	Masonry, stone setting, and other stonework -----	329	1 236	1 143	18 551	16 292	1 140	48 465	46 871
1742	Plastering, drywall, and insulation work -----	472	4 197	3 579	82 620	68 081	4 472	228 258	218 197
1743	Terrazzo, tile, marble, and mosaic work -----	53	410	353	7 517	5 871	502	18 439	17 539
175	Carpentering and flooring:								
1751	Carpentering -----	597	2 068	1 816	21 132	17 339	1 699	74 868	61 551
1752	Floor laying and other floorwork -----	192	756	536	12 974	8 950	715	43 873	41 936
1761	Roofing and sheet metal work -----	509	3 254	2 540	61 762	45 806	3 391	215 688	206 385
1771	Concrete work -----	435	2 264	2 030	37 242	30 713	2 396	112 207	104 405
1781	Water well drilling -----	86	334	265	4 674	3 926	432	16 374	19 021
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	64	772	632	21 625	16 902	1 009	46 172	44 554
1793	Glass and glazing work -----	102	665	443	13 200	8 972	684	44 127	43 915
1794	Excavating and foundation work -----	518	2 291	1 938	37 110	30 439	2 483	142 084	119 842
1795	Wrecking and demolition work -----	27	166	137	3 251	2 563	168	8 105	7 681
1796	Installing building equipment, n.e.c. -----	68	770	592	20 851	16 004	910	61 852	59 694
1799	Special trade contractors, n.e.c. -----	429	1 707	1 360	19 736	14 782	1 770	65 011	61 504
6552	<b>Subdividers and developers, n.e.c. -----</b>	<b>140</b>	<b>400</b>	<b>189</b>	<b>5 319</b>	<b>2 222</b>	<b>321</b>	<b>116 070</b>	<b>11 417</b>

†Land receipts for SIC 1531 were \$41,536; for SIC 6552 were \$9,713.



1982—Con.						1977			Relative standard error of estimate (percent) for column—			SIC code
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
3 396 250	1 967 892	1 594 648	100 001	101 177	1 201 425	84 829	4 981 221	2 304 719	1	1	2	15,16, 17
												15
215 374	193 504	112 063	5 265	6 716	56 083	10 645	574 671	199 656	4	3	4	152
17 815	27 506	33 172	157	743	3 496	(S)	(S)	(S)	14	17	31	1521
												1522
144 659	70 560	102 730	2 324	3 346	37 321	4 595	560 734	151 560	4	3	11	1531
												154
82 364	68 444	147 357	2 239	3 200	27 532	3 750	273 587	99 028	6	3	5	1541
344 806	305 899	795 994	14 461	10 188	96 554	7 389	656 927	205 515	1	1	2	1542
												16
205 761	131 118	62 371	12 980	14 763	258 236	7 192	416 332	229 345	4	1	2	1611
												162
53 326	(D)	19 134	2 853	2 741	30 294	613	54 554	24 808	(W)	(W)	(W)	1622
125 730	69 917	34 890	9 236	10 649	95 750	3 323	207 969	121 031	2	2	2	1623
692 973	199 390	95 017	12 366	10 109	136 024	5 347	351 904	190 326	1	1	2	1629
												17
303 615	210 865	92 283	7 708	6 059	72 197	8 301	460 424	240 738	2	2	5	1711
54 293	17 415	3 767	1 558	1 321	12 319	2 157	61 374	44 748	6	5	8	1721
444 937	244 827	15 788	5 949	6 853	81 101	7 738	352 056	212 946	3	1	2	1731
												174
27 976	19 220	1 594	985	1 063	10 776	2 020	73 253	46 517	11	9	11	1741
147 464	76 700	10 060	3 320	2 487	25 066	5 031	180 619	107 607	4	3	5	1742
9 353	(D)	900	159	178	1 374	184	7 951	4 172	9	9	30	1743
												175
36 311	27 657	13 316	869	555	8 643	1 925	58 542	35 277	7	8	9	1751
23 178	19 890	1 937	396	205	4 222	1 210	54 427	29 518	9	8	10	1752
135 648	75 941	9 302	2 725	3 907	30 487	3 355	138 445	74 518	5	3	5	1761
69 008	38 944	7 801	1 620	2 341	32 921	1 764	51 886	34 675	6	5	3	1771
11 782	7 914	353	151	743	19 705	452	24 436	16 125	16	17	12	1781
												179
36 059	9 521	1 618	1 474	851	7 715	777	30 373	23 655	6	5	3	1791
25 220	22 313	212	501	247	4 793	453	20 843	10 616	9	8	8	1793
89 554	32 957	22 241	6 977	8 566	113 596	1 743	86 587	62 732	6	6	9	1794
7 349	1 091	424	1 244	678	4 989	242	6 240	5 641	3	3	(W)	1795
42 783	17 101	2 158	794	809	8 375	314	20 821	14 858	7	4	10	1796
38 836	24 938	3 507	1 556	1 559	15 108	2 093	76 121	51 087	7	7	7	1799
10 065	2 604	4 653	126	293	6 737	772	43 932	24 960	11	15	18	6552



**Table 4. Detailed Statistics for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
Number of establishments in business during year .....	10 487	11 379	8 195	7 094	2	2	3	3
Number of establishments in business at end of year .....	10 126	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Proprietors and working partners.....	3 831	7 188	5 429	5 026	4	4	4	4
All employees** .....	77 690	84 829	61 863	61 509	1	1	2	1
Construction workers:								
March.....	58 533	61 633	43 156	47 406	1	1	2	1
May.....	60 912	72 712	50 937	53 607	1	1	2	2
August.....	63 606	79 011	60 228	59 572	1	1	2	1
November.....	56 809	74 313	51 557	52 242	1	1	2	1
Average.....	61 087	71 978	52 347	53 915	1	1	2	1
Other employees:								
March.....	16 450	12 522	9 178	7 536	1	1	2	2
Construction worker hours (thousands):								
January to March .....	21 856	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
April to June.....	22 832	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
July to September.....	23 818	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
October to December.....	20 941	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Total hours worked.....	89 448	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Payroll, all employees .....	1 703 642	1 214 643	646 844	506 246	1	1	2	1
Payroll, construction workers .....	1 315 192	993 098	535 553	434 468	1	1	2	1
Payroll, other employees .....	388 449	221 545	111 291	71 747	1	1	2	2
First quarter payroll, all employees .....	416 192	256 043	(NA)	(NA)	1	1	(NA)	(NA)
Employer costs for fringe benefits.....	317 295	261 295	(NA)	(NA)	1	1	(NA)	(NA)
Legally required expenditures.....	249 769	151 825	(NA)	(NA)	1	1	(NA)	(NA)
Voluntary expenditures.....	67 525	109 470	(NA)	(NA)	1	(W)	(NA)	(NA)
All business receipts.....	7 010 041	5 200 680	2 534 313	2 015 415	1	1	2	2
Total construction receipts .....	6 834 101	4 961 221	2 449 475	1 953 674	1	1	2	1
Receipts for work subcontracted in from others .....	1 452 953	1 234 436	479 891	350 921	1	1	3	3
Land receipts <sup>1</sup> .....	51 249	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Other business receipts.....	124 690	239 458	84 838	62 228	2	2	3	6
Net construction receipts†.....	5 239 452	3 884 778	1 831 582	1 446 503	1	1	2	1
Value added††.....	3 396 250	2 304 719	1 150 496	868 321	1	1	2	2
Selected payments .....	3 562 541	2 803 760	1 355 070	1 123 849	1	1	2	2
Materials, components, and supplies <sup>2</sup> .....	1 854 343	1 643 648	737 177	616 977	1	1	2	1
Construction work subcontracted to others .....	1 594 648	1 076 443	617 893	507 242	1	1	3	2
Selected power, fuels, and lubricants.....	113 548	83 669	(NA)	(NA)	1	1	(NA)	(NA)
Electricity.....	17 088	8 485	(NA)	(NA)	2	2	(NA)	(NA)
Natural gas.....	3 371	4 254	(NA)	(NA)	2	3	(NA)	(NA)
Gasoline and diesel fuel (including gasohol).....	85 739	58 546	(NA)	(NA)	2	1	(NA)	(NA)
Other, including lubricating oils and greases.....	7 349	12 388	(NA)	(NA)	2	2	(NA)	(NA)
Storage capacity for fuels (thousand gallons) <sup>3</sup> .....	2 374	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Rental payments for machinery, equipment, and structures .....	100 001	75 814	(NA)	(NA)	1	1	(NA)	(NA)
For machinery and equipment .....	74 302	64 458	40 205	29 002	1	1	2	2
For structures.....	25 699	11 356	(NA)	(NA)	2	2	(NA)	(NA)
Selected purchased services .....	110 243	95 712	(NA)	(NA)	1	1	(NA)	(NA)
Communication services .....	26 570	19 058	(NA)	(NA)	2	3	(NA)	(NA)
Repairs to structures and related facilities .....	4 609	4 311	(NA)	(NA)	4	4	(NA)	(NA)
Repairs to machinery and equipment.....	79 063	72 343	(NA)	(NA)	1	1	(NA)	(NA)
Ownership of construction projects:								
Total construction receipts .....	6 834 101	4 961 221	2 449 475	1 953 674	1	1	2	1
Government owned .....	2 031 561	1 375 026	1 035 675	732 030	1	1	2	2
Privately owned .....	4 802 539	3 586 196	1 413 800	1 221 644	1	1	3	3

<sup>1</sup>Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

<sup>2</sup>For 1967 and 1972, includes data for power, fuels, and lubricants.

<sup>3</sup>Data were collected only for establishments classified as heavy construction contractors.

**Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1982 and Earlier Census Years**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1982	1977	1972	1967	Relative standard error of estimate (percent)			
					1982	1977	1972	1967
STRUCTURES, MACHINERY, AND EQUIPMENT								
Beginning-of-year gross book value of depreciable assets -----	1 174 607	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	101 177	150 530	70 747	53 905	2	2	3	4
New -----	66 796	108 983	48 682	41 277	1	3	3	4
Used -----	34 380	41 547	22 065	12 628	4	4	6	8
Retirements and disposition of depreciable assets -----	74 358	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 201 425	886 729	453 890	(NA)	2	1	4	(NA)
Depreciation charges during year -----	146 578	93 081	50 078	(NA)	2	1	4	(NA)
Structures, Additions, and Related Facilities								
Beginning-of-year gross book value of depreciable assets -----	177 778	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	11 900	26 349	11 925	12 838	5	10	14	19
New structures and related facilities -----	9 146	23 917	9 157	10 687	3	8	11	14
Used structures and related facilities -----	2 753	2 432	2 768	2 151	20	12	18	25
Retirements and disposition of depreciable assets -----	10 873	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	178 804	246 709	81 358	(NA)	3	2	7	(NA)
Depreciation charges during year -----	16 272	19 326	4 825	(NA)	5	4	7	(NA)
Machinery and Equipment								
Beginning-of-year gross book value of depreciable assets -----	996 828	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Capital expenditures, other than land -----	89 277	124 180	58 822	41 067	2	3	4	5
New machinery and equipment, including automobiles and trucks -----	57 650	85 065	39 525	30 590	2	3	3	3
New automobiles and trucks, intended primarily for highway use -----	19 727	34 158	(NA)	(NA)	4	3	(NA)	(NA)
Used machinery and equipment, including automobiles and trucks -----	31 627	39 115	19 297	10 477	3	4	6	8
Retirements and disposition of depreciable assets -----	63 485	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
End-of-year gross book value of depreciable assets -----	1 022 621	640 020	372 532	(NA)	2	1	4	(NA)
Depreciation charges during year -----	130 306	73 755	45 253	(NA)	2	1	4	(NA)

**Table 6. Value of Inventories for Establishments With Payroll: 1982 and 1981**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
<b>All establishments:</b>		
Number .....	10 487	2
Total construction receipts .....	6 834 101	1
<b>Establishments with inventories:</b>		
Number .....	3 268	5
Total construction receipts .....	2 688 955	1
<b>Inventories<sup>1</sup>:</b>		
End of 1982, total .....	135 225	4
Value for establishments with LIFO reserve .....	6 031	5
Amount of LIFO reserve .....	2 546	12
Value for establishments with no LIFO reserve .....	129 194	4
End of 1981, total .....	125 617	4
Value for establishments with LIFO reserve .....	5 279	3
Amount of LIFO reserve .....	2 117	7
Value for establishments with no LIFO reserve .....	120 338	5
<b>Establishments with no inventories:</b>		
Number .....	7 219	2
Total construction receipts .....	4 145 146	1

<sup>1</sup>Inventories at cost or market prior to any adjustment to correct to LIFO values.



**Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Establishments with an average of—									
	Total	1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
<b>1982</b>										
Number of establishments .....	10 487	7 322	1 646	866	459	108	62	16	5	2
All employees** .....	77 690	13 232	10 731	11 313	13 443	7 172	9 210	5 725	6 864	(D)
Payroll, all employees .....	1 703 642	140 697	166 519	215 522	319 898	206 767	264 689	150 518	239 031	(D)
Construction worker hours (thousands) .....	89 448	13 127	10 733	11 054	14 770	8 956	12 502	7 215	11 088	(D)
All business receipts .....	7 010 041	745 751	718 961	840 306	1 308 807	1 920 307	(D)	1 475 907	(D)	(D)
Total construction receipts .....	6 834 101	723 273	691 923	806 996	1 275 570	814 825	1 051 433	628 881	841 199	(D)
Net construction receipts† .....	5 239 452	583 202	560 495	629 063	938 482	574 963	765 185	434 013	754 048	(D)
Value added†† .....	3 396 250	341 094	354 696	402 969	595 365	369 384	486 961	252 716	593 065	(D)
Payments for materials, components, supplies, and fuels .....	1 967 892	252 316	222 709	249 521	365 772	234 332	295 133	348 107	(D)	(D)
Payments for construction work subcontracted to others .....	1 594 648	140 070	131 428	177 933	337 087	239 862	286 248	194 868	87 151	(D)
Rental payments for machinery, equipment, and structures .....	100 001	10 977	11 453	14 744	20 273	13 753	14 677	14 124	(D)	(D)
Capital expenditures, other than land .....	101 177	12 720	9 878	14 381	19 007	13 879	18 753	9 890	2 667	(D)
End-of-year gross book value of depreciable assets .....	1 201 425	184 075	138 607	169 920	200 821	161 290	171 522	127 534	47 654	(D)
<b>1977</b>										
All employees** .....	84 829	14 557	13 652	13 135	15 050	10 365	6 865	5 772	5 434	-
Total construction receipts .....	4 961 221	696 864	706 415	743 243	986 150	738 599	503 677	312 131	274 142	-
Value added†† .....	2 304 719	309 074	324 001	340 877	473 030	331 031	228 823	170 222	127 662	-
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>										
All employees** .....	1	2	4	3	2	(W)	(W)	(W)	(W)	-
Net construction receipts† .....	1	3	4	2	1	(W)	(W)	(W)	(W)	-
Capital expenditures, other than land .....	2	8	10	7	1	(W)	(W)	(W)	(W)	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

**Table 8. Selected Statistics for Establishments With Payroll by Receipts Size Class: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with all business receipts of—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
<b>1982</b>											
Number of establishments -----	10 487	1 941	1 307	1 691	2 362	1 360	803	590	212	118	101
All employees** -----	77 690	2 176	2 010	3 516	8 076	8 225	7 919	10 714	6 963	6 940	21 149
Payroll, all employees -----	1 703 642	6 310	11 808	30 447	90 330	121 519	151 379	238 474	180 661	194 524	678 189
Construction worker hours (thousands) -----	89 448	1 694	1 897	3 115	7 591	7 951	8 115	11 336	8 138	8 589	31 018
All business receipts -----	7 010 041	22 660	47 342	123 177	374 595	476 742	549 241	915 977	733 543	810 023	2 956 739
Total construction receipts -----	6 834 101	22 008	46 718	120 563	364 828	460 116	533 361	880 260	708 324	782 721	2 915 198
Net construction receipts† -----	5 239 452	18 815	40 895	105 875	319 394	384 678	445 926	691 849	531 091	579 311	2 121 616
Value added†† -----	3 396 250	11 155	24 080	63 269	192 215	236 447	274 748	441 630	350 135	365 079	1 437 488
Payments for materials, components, supplies, and fuels -----	1 967 892	8 058	17 188	44 642	132 288	158 870	182 292	278 480	198 945	231 209	715 915
Payments for construction work subcontracted to others -----	1 594 648	3 193	5 823	14 688	45 434	75 438	87 435	188 410	177 233	203 410	793 582
Rental payments for machinery, equipment, and structures -----	100 001	406	809	2 300	5 483	8 745	9 489	15 788	11 701	10 767	34 510
Capital expenditures, other than land -----	101 177	310	770	2 111	6 473	7 699	10 126	14 634	11 363	11 295	36 392
End-of-year gross book value of depreciable assets -----	1 201 425	8 117	12 313	37 799	95 051	121 402	109 600	162 497	134 010	151 831	368 801
<b>1977</b>											
All employees** -----	84 829	(S)	2 280	4 654	10 917	10 810	9 494	13 598	8 774	122 127	(NA)
Total construction receipts -----	4 961 221	(S)	51 745	146 484	440 802	514 610	517 938	905 552	618 045	11 747 336	(NA)
Value added†† -----	2 304 719	(S)	28 623	72 757	206 756	244 599	250 997	441 052	300 497	1750 001	(NA)
<b>1982 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)</b>											
All employees** -----	1	4	7	6	4	4	4	2	(W)	(W)	(W)
Net construction receipts† -----	1	5	5	4	4	5	4	3	(W)	(W)	(W)
Capital expenditures, other than land -----	2	25	18	12	11	12	14	5	(W)	(W)	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

†Data for this size class includes establishments with receipts of \$10,000,000 or more, which were not tabulated separately in 1977.



**Table 9. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Construction receipts			Relative standard error of estimate (percent) for column—		
	Total	New construction <sup>1</sup>	Maintenance and repair			
	A	B	C	A	B	C
<b>1982</b>						
<b>Total construction receipts†</b>	<b>6 834 101</b>	<b>5 909 213</b>	<b>924 888</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Building construction</b>	<b>4 361 923</b>	<b>3 769 009</b>	<b>592 914</b>	<b>1</b>	<b>1</b>	<b>2</b>
Single-family houses	1 052 710	864 748	187 962	2	2	4
Single-family houses, detached	941 170	769 276	171 893	2	3	4
Single-family houses, attached	111 540	95 472	16 068	4	5	14
Apartment buildings with two or more apartments	184 211	141 365	42 846	5	6	4
Other residential buildings	144 201	130 486	13 714	2	2	3
Office and bank buildings	960 936	863 630	97 306	1	1	2
Office buildings	871 604	790 790	80 814	1	1	2
Bank buildings and other financial institutions	89 332	72 840	16 491	3	4	6
Farm buildings	23 916	17 784	6 131	7	10	5
Industrial buildings and warehouses	789 125	679 373	109 751	1	1	3
Industrial buildings	633 271	547 560	85 710	1	1	3
Warehouses	155 853	131 813	24 040	2	2	4
Stores, restaurants, public garages, and automobile service stations	392 770	332 966	59 803	3	3	3
Religious buildings	38 997	31 876	7 120	4	3	14
Educational buildings	384 045	353 043	31 001	2	2	7
Hospitals and institutional buildings	283 396	260 156	23 239	2	1	6
Amusement, social, and recreational buildings	49 698	46 815	2 882	6	6	10
Other nonresidential buildings	57 912	46 758	11 153	5	5	24
<b>Nonbuilding construction</b>	<b>2 086 240</b>	<b>1 826 867</b>	<b>259 372</b>	<b>1</b>	<b>1</b>	<b>2</b>
Highways, streets, and related facilities	429 852	328 132	101 720	2	2	3
Bridges, tunnels, and elevated highways	112 248	97 169	15 079	1	1	(W)
Dam and reservoir construction	47 270	44 837	2 432	4	4	4
Marine construction	98 870	66 718	32 151	1	1	3
Harbor and port facilities	21 436	18 390	3 046	8	8	15
Conservation and development construction	19 113	15 367	3 746	17	21	27
Power and communication transmission lines, towers, and related facilities	93 479	75 412	18 067	5	6	4
Sewers, water mains, and related facilities	205 095	186 204	18 890	3	3	7
Sewers, sewer lines, and related facilities	126 851	115 252	11 598	4	4	8
Water mains and related facilities	78 244	70 952	7 292	4	4	14
Pipeline, other than sewer or water lines	30 092	21 952	8 139	1	1	(W)
Sewage treatment and water treatment plants	101 082	95 698	5 383	1	(W)	4
Sewage treatment plants	83 295	78 710	4 584	1	1	4
Water treatment plants	17 787	16 987	799	1	1	13
Power plants	721 205	700 602	20 602	(W)	(W)	2
Power plants, nuclear	474 779	(D)	(D)	(W)	-	-
Power plants, except nuclear	246 426	(D)	(D)	1	-	-
Other nonbuilding construction	206 486	176 374	30 106	6	6	9
<b>Construction work, n.s.k.</b>	<b>385 937</b>	<b>313 336</b>	<b>72 600</b>	<b>4</b>	<b>3</b>	<b>4</b>
<b>1977</b>						
<b>Total construction receipts†</b>	<b>4 961 221</b>	<b>4 280 900</b>	<b>680 322</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Building construction</b>	<b>3 420 004</b>	<b>2 978 745</b>	<b>441 259</b>	<b>1</b>	<b>1</b>	<b>2</b>
Single-family houses	1 442 816	1 264 063	178 753	2	2	4
Apartment buildings with two or more apartments	296 553	267 959	28 594	2	3	6
Other residential buildings	47 269	39 555	7 714	3	4	4
Office and bank buildings	334 764	283 554	51 210	2	2	3
Farm buildings	25 132	19 820	5 312	9	10	17
Industrial buildings and warehouses	583 546	506 794	76 752	1	1	3
Stores, restaurants, public garages, and automobile service stations	251 917	208 304	43 613	3	4	4
Religious buildings	24 897	20 690	4 207	5	6	7
Educational buildings	194 881	176 387	18 494	1	1	3
Hospitals and institutional buildings	144 239	129 781	14 458	2	2	2
Amusement, social, and recreational buildings	32 474	26 487	5 987	7	7	19
Other nonresidential buildings	41 516	35 351	6 165	5	6	9
<b>Nonbuilding construction</b>	<b>1 319 671</b>	<b>1 107 162</b>	<b>212 509</b>	<b>1</b>	<b>1</b>	<b>2</b>
Highways, streets, and related facilities	404 495	334 177	70 318	1	1	3
Bridges, tunnels, and elevated highways	67 462	63 649	3 813	1	1	3
Dam and reservoir construction	74 456	67 196	7 260	2	1	21
Marine construction	39 876	27 184	12 692	4	5	2
Power and communication transmission lines, towers, and related facilities	45 892	24 022	21 870	2	3	2
Sewers, water mains, and related facilities	206 906	186 211	20 695	3	3	13
Power plants	236 396	205 817	30 579	(W)	(W)	1
Other nonbuilding construction	244 188	198 906	45 282	3	3	5
<b>Construction work, n.s.k.</b>	<b>221 594</b>	<b>194 775</b>	<b>26 819</b>	<b>6</b>	<b>6</b>	<b>5</b>

<sup>1</sup>Includes data for work done as additions and alterations.

**Table 10. Quarterly Construction Worker Hours and Employment for Establishments With**

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers <sup>1</sup>	Hours worked (thousands)	Construction workers <sup>1</sup>	Hours worked (thousands)
		A	B	C	D	E	F	G
	<b>Construction Industries and subdividers and developers</b> .....	<b>10 487</b>	<b>61 087</b>	<b>89 448</b>	<b>58 533</b>	<b>21 856</b>	<b>60 912</b>	<b>22 832</b>
15,16, 17	<b>Construction Industries:</b>							
15	<b>General building contractors and operative builders:</b>							
152	General contractors, residential buildings:							
1521	Single-family houses .....	2 172	5 875	6 877	5 272	1 638	5 827	1 752
1522	Other residential buildings .....	195	454	715	401	163	422	175
1531	Operative builders .....	390	1 385	2 052	1 363	512	1 418	537
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses .....	197	1 697	2 486	1 626	580	1 830	685
1542	Nonresidential buildings, n.e.c. ....	618	7 020	10 840	6 650	2 548	6 734	2 644
16	<b>Heavy construction general contractors:</b>							
1611	Highway and street construction .....	265	3 475	5 259	2 518	894	3 484	1 381
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction .....	20	955	1 450	781	285	956	378
1623	Water, sewer, and utility lines .....	232	2 519	3 965	2 342	885	2 534	947
1629	Heavy construction, n.e.c. ....	200	6 526	12 495	7 141	3 516	7 007	3 297
17	<b>Special trade contractors:</b>							
1711	Plumbing, heating, and air conditioning .....	922	5 206	7 900	5 417	2 124	5 189	1 950
1721	Painting, paper hanging, and decorating .....	468	1 614	2 050	1 423	465	1 634	535
1731	Electrical work .....	776	6 804	11 255	7 372	3 143	6 649	2 824
174	Masonry, plastering, and tile setting:							
1741	Masonry, stone setting, and other stonework .....	329	1 143	1 140	1 250	312	1 028	296
1742	Plastering, drywall, and insulation work .....	472	3 579	4 472	3 390	1 082	3 518	1 162
1743	Terrazzo, tile, marble, and mosaic work .....	53	353	502	324	118	375	137
175	Carpentering and flooring:							
1751	Carpentering .....	597	1 816	1 699	1 645	438	1 803	414
1752	Floor laying and other floorwork .....	192	536	715	507	172	514	174
1761	Roofing and sheet metal work .....	509	2 540	3 391	2 235	741	2 416	838
1771	Concrete work .....	435	2 030	2 396	1 848	531	2 005	645
1781	Water well drilling .....	88	265	432	228	94	245	102
179	Miscellaneous special trade contractors:							
1791	Structural steel erection .....	64	632	1 009	659	247	562	223
1793	Glass and glazing work .....	102	443	684	414	157	418	175
1794	Excavating and foundation work .....	518	1 938	2 483	1 576	477	1 988	676
1795	Wrecking and demolition work .....	27	137	168	119	33	139	40
1796	Installing building equipment, n.e.c. ....	68	592	910	554	214	595	241
1799	Special trade contractors, n.e.c. ....	429	1 360	1 770	1 291	396	1 432	506
6552	<b>Subdividers and developers, n.e.c. ....</b>	<b>321</b>	<b>321</b>	<b>321</b>	<b>180</b>	<b>79</b>	<b>180</b>	<b>84</b>

<sup>1</sup>Sum of construction workers during pay periods including 12th of March, May, August, and November.



# Payroll by Industry: 1982

July to September		October to December		Relative standard error of estimate (percent) for column—										SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
63 606	23 818	56 809	20 941	1	1	1	1	1	1	1	1	1	1	15,16, 17
														15
5 898 489	1 817 190	5 669 442	1 669 185	4 11	4 13	4 10	5 17	4 9	5 14	4 14	6 16	7 15	6 22	152 1521 1522
1 281	498	1 319	503	5	5	6	8	7	8	5	7	6	7	1531
1 736 7 564	678 2 950	1 506 6 885	542 2 697	6 1	5 1	5 1	5 1	10 2	8 2	7 2	7 1	7 2	6 2	154 1541 1542
														16
4 684	1 811	3 132	1 172	4	1	3	2	3	2	8	2	3	2	1611
														162
1 151 2 909 6 133	473 1 220 2 951	926 2 204 5 773	313 911 2 730	(W) 3 1	(W) 2 1	(W) 2 1	(W) 3 1	(W) 2 1	1 3 1	(W) 3 1	(W) 3 1	(W) 3 1	(W) 3 1	1622 1623 1629
														17
4 975	1 926	4 820	1 899	3	2	3	3	3	3	3	3	3	3	1711
1 724	577	1 451	472	6	6	7	9	6	8	7	8	7	10	1721
6 693	2 752	6 154	2 536	3	2	2	2	2	2	3	3	3	3	1731
														174
1 148 3 536 355	290 1 091 131	994 3 624 321	240 1 136 114	11 4 8	10 3 9	13 4 8	16 5 13	11 4 10	13 4 13	16 5 9	13 5 12	16 4 8	13 5 12	1741 1742 1743
														175
1 868 490	418 172	1 601 529	428 195	7 8	8 8	10 9	14 14	6 9	11 13	8 8	11 12	10 8	12 13	1751 1752
2 738	937	2 625	874	5	5	5	6	5	6	5	6	5	7	1761
2 151	668	1 904	550	7	6	6	7	6	7	8	8	11	10	1771
295	129	252	107	15	15	16	22	16	20	15	18	15	20	1781
														179
752 455	324 176	548 422	213 174	6 9	5 10	5 10	7 14	6 9	7 12	5 8	5 13	8 10	9 14	1791 1793
2 214 154 587 1 430	770 48 235 495	1 699 133 597 1 097	559 45 219 372	6 3 7 7	7 5 5 8	8 3 6 7	10 3 7 11	6 6 8 8	8 10 7 11	7 8 7 9	7 10 7 12	7 10 8 8	7 9 7 11	1794 1795 1796 1799
191	81	174	75	15	18	17	23	14	21	18	24	15	23	6552



**Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1982**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Average number of employees** per establishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker (thousands)	Total construction receipts per employee (\$1,000)	Average per dollar of total construction receipts				
						Payroll, all employees	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Rental payments for machinery, equipment, and structures
	<b>Construction industries and subdividers and developers</b> .....	<b>7.4</b>	<b>21.9</b>	<b>1.5</b>	<b>111.9</b>	<b>.249</b>	<b>.288</b>	<b>.233</b>	<b>.015</b>	<b>.015</b>
15,18, 17	<b>Construction industries:</b>									
15	<b>General building contractors and operative builders:</b>									
152	General contractors, residential buildings:									
1521	Single-family houses .....	3.3	12.4	1.2	86.4	.176	.381	.221	.013	.010
1522	Other residential buildings .....	2.9	17.2	1.6	172.1	.124	.352	.425	.010	.002
1531	Operative builders .....	6.0	17.1	1.5	223.7	.130	.228	.332	.011	.008
154	General contractors, nonresidential buildings:									
1541	Industrial buildings and warehouses .....	11.3	23.4	1.5	172.9	.178	.233	.502	.011	.008
1542	Nonresidential buildings, n.e.c. ....	15.0	26.1	1.5	205.3	.168	.212	.552	.007	.010
18	<b>Heavy construction general contractors:</b>									
1611	Highway and street construction .....	15.9	23.8	1.5	112.2	.257	.336	.160	.038	.033
162	Heavy construction, except highway:									
1622	Bridge, tunnel, and elevated highway construction .....	56.8	22.9	1.5	117.0	.233	(D)	.171	.025	.026
1623	Water, sewer, and utility lines .....	13.6	22.2	1.6	90.5	.306	.307	.153	.047	.041
1629	Heavy construction, n.e.c. ....	39.3	32.2	1.9	149.0	.261	.205	.098	.010	.013
17	<b>Special trade contractors:</b>									
1711	Plumbing, heating, and air conditioning .....	7.9	23.5	1.5	112.7	.290	.360	.157	.010	.013
1721	Painting, paper hanging, and decorating .....	4.1	16.4	1.3	46.6	.417	.232	.050	.018	.021
1731	Electrical work .....	11.9	27.2	1.7	102.3	.361	.352	.023	.010	.009
174	Masonry, plastering, and tile setting:									
1741	Masonry, stone setting, and other stonework .....	3.8	15.0	1.0	42.4	.383	.397	.033	.022	.020
1742	Plastering, drywall, and insulation work .....	8.9	19.7	1.2	63.8	.362	.336	.044	.011	.015
1743	Terrazzo, tile, marble, and mosaic work .....	7.7	18.1	1.4	52.2	.408	(D)	.049	.010	.009
175	Carpentering and flooring:									
1751	Carpentering .....	3.5	10.2	.9	41.2	.282	.369	.178	.007	.012
1752	Floor laying and other floorwork .....	3.9	17.2	1.3	81.9	.296	.453	.044	.005	.009
1761	Roofing and sheet metal work .....	6.4	19.0	1.3	84.9	.286	.352	.043	.018	.013
1771	Concrete work .....	5.2	16.4	1.2	55.3	.332	.347	.070	.021	.014
1781	Water well drilling .....	3.8	14.0	1.6	73.1	.241	.408	.018	.038	.008
179	Miscellaneous special trade contractors:									
1791	Structural steel erection .....	12.1	28.0	1.6	73.1	.468	.206	.035	.018	.032
1793	Glass and glazing work .....	6.5	19.8	1.5	99.6	.299	.506	.005	.006	.011
1794	Excavating and foundation work .....	4.4	16.2	1.3	73.3	.261	.232	.157	.060	.049
1795	Wrecking and demolition work .....	6.1	19.6	1.2	59.2	.401	.135	.052	.084	.153
1796	Installing building equipment, n.e.c. ....	11.3	27.1	1.5	104.5	.337	.276	.035	.013	.013
1799	Special trade contractors, n.e.c. ....	4.0	11.6	1.3	47.8	.304	.384	.054	.024	.024
6552	<b>Subdividers and developers, n.e.c.</b> .....	<b>2.9</b>	<b>13.3</b>	<b>1.7</b>	<b>85.0</b>	<b>.331</b>	<b>.174</b>	<b>.290</b>	<b>.018</b>	<b>.008</b>

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>SEATTLE-TACOMA SCSA</b>											
	Construction industries and subdividers and developers..	5 597	47 397	1 107 425	4 589 677	3 497 150	2 270 561	1 305 775	1 092 527	62 647	1	1
15,16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses .....	1 101	4 033	56 655	332 364	263 055	138 546	133 785	69 309	4 346	6	4
1522	Other residential buildings .....	132	432	7 956	65 905	36 862	14 000	23 122	29 043	*325	16	21
1531	Operative builders .....	266	1 811	34 560	265 731	176 008	126 500	56 539	89 723	2 436	4	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	97	1 099	29 187	161 192	71 838	42 870	31 681	89 354	1 034	6	3
1542	Nonresidential buildings, n.e.c. ....	330	5 894	163 468	1 035 862	482 245	263 931	221 539	553 617	5 587	2	1
16	Heavy construction general contractors:											
1611	Highway and street construction .....	120	1 545	40 904	167 505	131 552	86 347	50 558	35 953	5 218	5	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	9	857	18 103	74 767	61 801	31 987	(D)	12 966	1 866	(W)	(W)
1623	Water, sewer, and utility lines .....	163	2 088	48 784	157 883	133 589	84 790	(D)	24 295	8 555	3	3
1629	Heavy construction, n.e.c. ....	90	5 304	183 984	750 837	692 441	558 320	143 845	58 396	7 436	1	(W)
17	Special trade contractors:											
1711	Plumbing, heating, and air conditioning .....	444	4 286	109 551	378 996	313 288	197 856	129 141	65 708	3 760	3	2
1721	Painting, paper hanging, and decorating .....	263	1 315	23 441	54 768	51 843	39 636	12 346	2 925	891	7	6
1731	Electrical work .....	404	4 783	132 240	388 390	379 690	217 572	165 980	8 700	4 236	6	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	158	773	13 808	33 854	32 519	19 236	13 598	1 335	879	13	10
1742	Plastering, drywall, and insulation work .....	311	3 225	68 192	181 067	173 593	121 605	56 874	7 474	2 146	4	3
1743	Terrazzo, tile, marble, and mosaic work .....	32	351	6 902	16 235	15 350	8 087	(D)	885	*178	9	9
175	Carpentering and flooring:											
1751	Carpentering .....	348	1 382	13 797	43 304	37 112	22 404	15 693	6 192	340	10	12
1752	Floor laying and other floorwork .....	121	576	10 351	34 230	32 816	18 167	15 576	1 414	154	11	10
1761	Roofing and sheet metal work .....	294	1 893	35 184	116 507	108 951	65 632	46 795	7 556	2 383	7	5
1771	Concrete work .....	232	1 558	27 988	79 227	73 289	49 581	26 052	5 939	1 912	9	6
1781	Water well drilling .....	20	118	1 924	7 070	6 963	4 264	2 726	*107	542	24	29
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	42	513	13 768	29 314	28 191	23 263	5 262	1 123	672	6	7
1793	Glass and glazing work .....	56	493	10 253	31 416	31 254	18 652	14 834	162	182	9	6
1794	Excavating and foundation work .....	199	1 177	21 228	77 139	62 692	46 227	18 284	14 448	4 968	7	7
1795	Wrecking and demolition work .....	12	105	2 506	6 342	6 019	5 809	(D)	323	584	(W)	(W)
1796	Installing building equipment, n.e.c. ....	50	624	17 541	51 162	49 236	34 892	14 495	1 926	593	9	4
1799	Special trade contractors, n.e.c. ....	232	976	12 594	41 410	39 337	25 690	15 365	2 073	1 220	10	8
6552	Subdividers and developers, n.e.c. ....	74	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
	<b>PORTLAND, OREG.-WASH., SMSA</b>											
	Construction industries and subdividers and developers..	2 950	21 708	461 176	1 823 072	1 323 108	838 054	512 845	499 964	28 211	1	1
15,16, 17	Construction industries:											
15	General building contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses .....	507	1 653	19 306	(D)	(D)	41 999	(D)	33 699	1 067	6	-
1522	Other residential buildings .....	53	202	3 947	34 490	15 768	9 501	6 360	18 722	139	10	13
1531	Operative builders .....	120	578	10 223	68 599	46 912	31 760	18 109	21 687	793	9	12
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	51	483	10 198	50 334	27 686	15 486	(D)	22 648	595	11	11
1542	Nonresidential buildings, n.e.c. ....	184	2 290	62 660	458 818	157 061	90 768	67 442	301 758	2 154	4	3



Table 12. **Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>PORTLAND, OREG.-WASH., SMSA—Con.</b>											
15,16, 17	<b>Construction Industries—Con.</b>											
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction -----	74	1 170	27 973	114 420	99 311	58 781	43 022	15 109	4 446	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	8	*60	*1 750	*7 101	*5 034	(D)	(D)	*2 067	*272	53	49
1623	Water, sewer, and utility lines.....	55	1 278	33 590	109 931	98 787	80 949	18 210	11 144	6 529	3	2
1629	Heavy construction, n.e.c. ....	37	795	23 629	68 850	59 397	43 210	17 030	9 453	1 825	4	3
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning.....	315	2 230	54 579	156 142	136 054	83 341	56 096	20 088	2 058	4	3
1721	Painting, paper hanging, and decorating.....	153	622	10 325	25 650	24 799	19 534	5 623	851	(S)	12	13
1731	Electrical work .....	208	1 850	50 467	143 452	139 225	86 074	56 216	4 227	1 032	4	2
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework.....	81	401	6 828	17 593	16 265	11 285	(D)	1 328	115	11	9
1742	Plastering, drywall, and insulation work.....	143	1 835	35 934	83 226	79 834	47 416	35 092	3 392	1 186	5	6
1743	Terrazzo, tile, marble, and mosaic work .....	*5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(S)	-	-
175	Carpentering and flooring:											
1751	Carpentering .....	169	527	4 846	20 807	16 452	9 680	7 447	4 355	*232	16	16
1752	Floor laying and other floorwork.....	64	389	5 554	19 633	18 897	9 452	10 311	*736	*32	16	14
1761	Roofing and sheet metal work .....	152	935	16 812	55 370	53 056	29 763	23 747	2 314	1 133	10	8
1771	Concrete work .....	191	888	11 829	41 275	38 291	23 618	15 192	2 985	456	11	8
1781	Water well drilling .....	17	48	608	2 531	2 503	1 416	1 092	28	-	29	28
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	20	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)	-	-
1793	Glass and glazing work .....	16	178	5 236	28 060	28 004	14 199	16 573	*56	114	10	4
1794	Excavating and foundation work.....	98	732	12 945	54 184	44 008	32 428	12 026	10 176	1 466	10	6
1795	Wrecking and demolition work .....	4	(D)	(D)	318	301	279	44	17	-	-	(W)
1796	Installing building equipment, n.e.c. ....	28	646	18 760	55 619	(D)	32 593	17 328	(D)	418	1	-
1799	Special trade contractors, n.e.c. ....	138	550	8 772	26 130	25 278	16 281	9 738	852	794	11	10
6552	Subdividers and developers, n.e.c. ....	64	200	2 964	9 365	5 301	2 730	*3 416	*4 064	128	15	12
	<b>SEATTLE-EVERETT SMSA</b>											
	<b>Construction Industries and subdividers and developers.</b>	4 545	41 249	986 828	4 127 199	3 142 938	2 044 838	1 167 455	984 261	55 289	1	1
15,16, 17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	905	3 338	47 496	286 949	228 909	114 744	122 339	58 041	3 607	6	4
1522	Other residential buildings .....	111	343	6 972	60 012	33 744	12 310	21 604	26 268	*323	13	21
1531	Operative builders .....	235	1 706	33 204	249 784	165 569	119 360	53 094	84 215	2 329	5	3
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses.....	88	992	27 292	149 871	65 397	38 650	(D)	84 474	989	6	3
1542	Nonresidential buildings, n.e.c. ....	274	5 360	150 696	950 074	446 192	240 214	(D)	503 882	4 960	2	1
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction .....	97	1 343	36 030	151 201	117 864	77 814	43 778	33 337	4 733	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction.....	9	857	18 103	74 767	61 801	31 987	(D)	12 966	1 866	(W)	(W)
1623	Water, sewer, and utility lines.....	136	1 819	42 673	138 392	117 469	73 603	45 390	20 924	7 590	3	4
1629	Heavy construction, n.e.c. ....	80	5 281	183 565	748 198	690 809	557 648	142 885	57 389	7 434	1	(W)



**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>SEATTLE-EVERETT SMSA—Con.</b>											
15,16,17	<b>Construction Industries—Con.</b>											
	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning .....	350	3 504	92 687	313 881	259 642	169 099	102 505	54 240	3 117	3	2
1721	Painting, paper hanging, and decorating .....	214	1 136	20 655	45 833	43 836	33 663	10 311	1 998	790	8	6
1731	Electrical work .....	313	3 881	107 315	321 926	316 645	176 891	142 511	5 281	3 740	6	3
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	120	707	13 065	31 677	30 504	17 973	12 846	1 173	879	14	10
1742	Plastering, drywall, and insulation work .....	250	2 750	59 684	157 855	151 704	107 515	48 291	6 151	1 942	5	4
1743	Terrazzo, tile, marble, and mosaic work .....	26	305	6 237	14 071	13 197	6 841	(D)	874	(D)	7	6
175	Carpentering and flooring:											
1751	Carpentering .....	270	1 208	11 101	33 966	29 491	17 359	13 104	4 475	275	8	15
1752	Floor laying and other floorwork .....	96	492	9 149	30 104	28 872	16 140	13 619	1 232	122	13	10
1761	Roofing and sheet metal work .....	235	1 567	28 453	93 400	88 157	53 288	37 849	5 243	1 370	6	6
1771	Concrete work .....	185	1 070	18 502	50 717	49 311	34 191	16 574	1 407	1 317	9	6
1781	Water well drilling .....	*10	*26	*419	*1 555	*1 555	*982	*573	-	-	54	54
179	Miscellaneous special trade contractors:											
1791	Structural steel erection .....	36	472	12 750	26 595	25 488	21 424	4 389	1 107	632	7	7
1793	Glass and glazing work .....	45	441	9 338	28 440	28 311	16 834	13 428	135	176	10	6
1794	Excavating and foundation work .....	164	1 045	19 746	72 301	58 363	43 036	17 063	13 939	4 811	7	8
1795	Wrecking and demolition work .....	8	64	1 380	3 827	3 554	3 422	(D)	273	(D)	(W)	(W)
1796	Installing building equipment, n.e.c. ....	39	550	16 506	48 090	46 323	32 470	13 894	1 767	593	8	3
1799	Special trade contractors, n.e.c. ....	185	818	11 384	36 775	34 817	22 839	13 672	1 958	1 113	9	9
6552	Subdividers and developers, n.e.c. ....	69	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	-	-
	<b>TACOMA SMSA</b>											
	<b>Construction Industries and subdividers and developers ..</b>	1 052	6 148	120 597	462 478	354 212	225 723	138 319	108 266	7 358	4	3
15,16,17	<b>Construction Industries:</b>											
15	<b>General building contractors and operative builders:</b>											
152	General contractors, residential buildings:											
1521	Single-family houses .....	197	695	9 159	45 414	34 146	23 802	11 447	11 269	739	13	13
1522	Other residential buildings .....	21	*89	*984	(S)	*3 118	*1 690	*1 518	*2 775	(D)	62	64
1531	Operative builders .....	31	105	1 356	15 947	10 439	7 140	3 445	5 508	(D)	16	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses .....	*9	107	1 895	11 321	6 441	4 220	(D)	4 880	*45	30	7
1542	Nonresidential buildings, n.e.c. ....	57	534	12 772	85 788	36 053	23 718	12 469	49 735	627	13	12
16	<b>Heavy construction general contractors:</b>											
1611	Highway and street construction .....	24	202	4 874	16 305	13 689	8 533	(D)	2 616	*485	12	10
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction .....	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines .....	27	269	6 111	19 491	16 120	11 187	5 651	3 371	966	9	6
1629	Heavy construction, n.e.c. ....	*10	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19	-
17	<b>Special trade contractors:</b>											
1711	Plumbing, heating, and air conditioning .....	95	782	16 864	65 115	53 647	28 757	26 637	11 469	*643	9	6
1721	Painting, paper hanging, and decorating .....	49	179	2 786	8 935	8 007	5 972	2 035	928	*101	17	18
1731	Electrical work .....	91	902	24 925	66 464	63 045	40 681	23 469	3 419	496	6	4
174	Masonry, plastering, and tile setting:											
1741	Masonry, stone setting, and other stonework .....	38	66	*743	*2 177	*2 015	*1 264	752	*162	-	37	44
1742	Plastering, drywall, and insulation work .....	61	475	8 508	23 212	21 889	14 090	8 583	1 323	205	9	6
1743	Terrazzo, tile, marble, and mosaic work .....	6	*46	*665	*2 164	*2 153	*1 246	*943	*11	*140	49	46
175	Carpentering and flooring:											
1751	Carpentering .....	78	174	2 696	9 338	7 621	5 045	2 589	*1 717	65	18	32
1752	Floor laying and other floorwork .....	25	84	1 202	4 126	3 944	2 027	(D)	*182	(D)	27	36
1761	Roofing and sheet metal work .....	59	326	6 731	23 108	20 795	12 344	(D)	2 313	1 013	14	8
1771	Concrete work .....	47	488	9 486	28 510	23 978	15 390	9 478	4 532	595	17	13

**Table 12. Selected Statistics for Establishments With Payroll for Selected Standard Metropolitan Statistical Areas: 1982—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes. For definitions of SMSA's, see appendix D]

SIC code	Geographic area and industry	Number of establishments	All employees**	Payroll, all employees	Total construction receipts	Net construction receipts†	Value added‡	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Capital expenditures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	<b>TACOMA SMSA—Con.</b>											
15,16, 17	<b>Construction Industries—Con.</b>											
17	<b>Special trade contractors—Con.</b>											
175	Carpentering and flooring—Con.											
1781	Water well drilling -----	*10	92	1 505	5 515	5 408	3 282	2 153	*107	542	27	32
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	6	41	1 018	2 719	(D)	1 840	874	(D)	*41	24	-
1793	Glass and glazing work -----	*11	52	915	2 970	(D)	1 818	1 406	(D)	6	33	-
1794	Excavating and foundation work -----	36	133	1 482	4 838	4 329	3 192	1 221	509	*157	21	13
1795	Wrecking and demolition work -----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-
1796	Installing building equipment, n.e.c. -----	*11	*74	*1 035	*3 072	*2 913	*2 422	(D)	*159	-	43	49
1799	Special trade contractors, n.e.c. -----	48	159	1 210	4 635	4 520	*2 851	*1 693	116	*107	34	38
6552	Subdividers and developers, n.e.c. -----	5	(D)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	-	-



# APPENDIX A.

## Explanation of Terms

**Construction**—Is composed of three broad categories: (1) new construction, (2) additions and alterations, and (3) maintenance and repair. "New construction" includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators and escalators. "Additions and alterations" includes construction activity making structural changes to existing facilities. "Maintenance and repair" includes the restoration of existing buildings or other structures or their service facilities, including the replacement of integral parts. Repainting, repapering, reroofing, etc., are also included.

Construction includes:

- special trade contracting such as electrical work, painting, and carpentering on mobile structures (trailers, mobile homes, and ships).
- support activities by construction contractors on mineral properties, except the following: sinking mine shafts; tunneling and shoring mines; erection, repairing and dismantling of drilling rigs; and building well foundations.
- the physical development of land for purposes other than agriculture.
- demolition of existing structures.

Construction does not include:

- shipbuilding.
- manufacturing of other mobile structures.

**Number of establishments in business during year**—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

**Number of establishments in business at end of year**—Includes all full-year or part-year establishments that were in business at the end of 1982.

**Proprietors and working partners**—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners. The partnership factor was based on information received during a large-scale test conducted in prior years.

**All employees**—Comprised all full-time and part-time employees on the payrolls of construction establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid-sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are excluded.

Total employment is calculated for each establishment and is derived by summing the construction workers data reported for March, May, August, and November, dividing by 4 and adding to it the number of other employees reported for March.

This approach was designed to simplify the questionnaire format and the reporting requirements of respondents. The industry average of these four selected pay periods approximates very closely the average employment for the year that would be obtained by using pay periods in all 12 months for almost all of the construction industries.

**Construction workers**—Includes all workers up through the working supervisor level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment operators, and on-site record keepers and security guards. Supervisory employees above the working supervisor level are excluded from this category but are included in the "other employees" category.

**Other employees**—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working supervisor level.

**Construction worker hours**—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1982 and are published in the detailed statistics tables.

**Payroll**—Includes the gross earnings paid in the calendar year 1982 to all employees on the payroll of construction establishments. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick-leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Payroll data were collected and tabulated for the employment categories described above and separately for the first quarter of 1982.

Payroll data for auxiliary establishments of multiestablishment companies are not included in these totals. Selected data for these types of establishments are found in the industry summary report and the 1982 Enterprise Statistics reports.

**Employer costs for fringe benefits**—Represents expenditures made by the employer during 1982 for legally required and voluntary fringe benefit programs for employees. These include employers' Social Security contributions, unemployment compensation, workers' compensation, State temporary disability payments, union negotiated benefits, life insurance premiums, pension plans, insurance premiums on hospital and medical plans, and welfare plans.



**All business receipts**—Includes all receipts from general contracting, special trade contracting or subcontracting, and land development and improvement work. It also includes all receipts from the sale of land (not recorded as fixed assets of the reporting establishments) and buildings built for sale. All other receipts from the reporting establishment's other business operations (rental of equipment to others, wholesale or retail sales, etc.) are also included.

Money obtained during the year in the form of construction loans is not treated as receipts, nor is money realized from the sale or other disposition of the establishment's fixed assets.

Also excluded are receipts from operations in foreign countries and nonoperating income such as interest and dividends.

All business receipts are broken down in the following detail:

**Total construction receipts**—Includes all receipts during 1982 for construction work performed by general contractors, special trades contractors or subcontractors, and for land development and improvement work. Included are receipts for maintenance and repair construction work, as well as for new construction and additions and alterations. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include in this item their 1982 receipts from the sale of buildings and other structures built for sale, excluding from these receipts the value of the land (see "land receipts" below) but including the value of any improvements an establishment made to the land. Builders who traded a new home or other building for an existing one were to include the estimated value of the trade-in.

Also included in construction receipts were fees received as sponsors of joint ventures and fees received as agents for owners (for construction work).

**Excluded were receipts for separately definable architectural and engineering work done by the reporting establishment for others and receipts from the rental of equipment to others (see "other business receipts" below).**

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies for construction purposes were instructed to include as construction receipts both the receipts for the installation and the receipts for the value (selling price) of the items installed. (Receipts for the selling price of items sold but not installed were to be included in "other business receipts.")

**Receipts for work subcontracted in from others**—Covers receipts during 1982 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total construction receipts accounted for by such work, and the percentages reported were applied to the reported construction receipts to develop a value for this item.

**Land receipts**—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in construction receipts.)

**Other business receipts**—Includes business receipts not reported as construction receipts or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

**Net construction receipts**—Derived for each establishment by subtracting the payments made for construction work subcontracted to others from the total construction receipts. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

**Value added**—Derived for each establishment, value added is equal to all business receipts, less payments for construction work subcontracted to others and payments for materials, components, supplies, and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, value added is modified to be equal to all business receipts less land receipts; payments for construction work subcontracted to others; and payments for materials, components, supplies, and fuels. (For a further explanation, see "Duplication of Receipts" section in the Introduction.)

**Selected payments**—Represents the total of payments for materials, components, and supplies; payments for construction work subcontracted to others; and payments for selected power, fuels, and lubricants. Capital expenditures and rental payments for machinery, equipment, and structures are shown elsewhere.

Payments for materials, components, and supplies include:

- total payments made by the reporting establishments during 1982 for the purchase of all materials, components, and supplies, except fuels, used for construction. (Supplies include expendable tools charged to current accounts.)
- freight and other direct charges incurred by the reporting establishment in acquiring the materials, components, and supplies are also included, as are the value of materials, components, and supplies obtained from other establishments of the respondent's company. Payments represent the amount paid after discounts.
- payments for materials, components, and supplies used by the reporting establishments in the construction of new plants or equipment for themselves, which are chargeable to their fixed assets accounts, are included in this item as are payments for materials bought and resold to others.
- payments made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.



Payments for materials, components, and supplies include only payments for physical goods and represent the amount paid after discounts.

Excluded from this item are:

- services such as advertising, telephone, telegraph and cable, insurance, developmental and research services of engineering, management, marketing, and other professional consultants, unless their costs are included in the prices paid for materials.
- overhead items such as depreciation charges against plant and equipment, rent and rental allowances, interest payments, royalties, patent fees, payments for land, rental of construction machinery or equipment, and construction work let out to other construction contractors.
- materials furnished to contractors by the owners of projects.

Payments for construction work subcontracted to others include:

- all payments made during 1982 for construction work subcontracted out to other construction contractors. General contractors were instructed to include payments to subcontractors. Builders were instructed to include payments made to general contractors and also payments made directly to subcontractors.
- special trade contractors were instructed to include payments made to other subcontractors. The payments made by the reporting establishment for its purchases of materials, components, and supplies are not included here, even if they were provided to a subcontractor for his use. Such purchases are reported under a separate category, "payments for materials, components, and supplies." However, if payments to subcontractors covered materials purchased directly by the subcontractors, then the total of such payments (including material charges) should have been reported in this item.

Excluded from this item are:

- payments made for the rental of construction machinery or equipment.

Payments for selected power, fuels, and lubricants include:

- payments made for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the parent company.
- payments made for natural and manufactured gas, fuel oil, coal and coke products, etc.

Dollar amounts include freight and other direct charges.

**Storage capacity for fuels**—Data for storage capacity for fuels were collected from heavy construction contractors, other than building construction contractors. Data are published in the detailed statistics tables for the heavy construction industries, i.e., SIC 1611, SIC 1622, SIC 1623, and SIC 1629.

**Rental payments for machinery, equipment, and structures**—Includes all payments made during 1982 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes payments for the rental of land. It also excludes payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized. Such payments are included in "capital expenditures." It also excludes payments made under agreements which, in effect, are true subcontract construction arrangements; such payments are included in payments for "construction work subcontracted to others."

**Selected purchased services**—Includes all payments made during 1982 for communication services purchased from other companies or from other establishments of the parent company. It also includes the cost of all repairs made to structures and equipment by outside firms, or from other establishments of the parent companies. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increases the value of property, or the cost of adapting it for another use.

**Fixed assets and depreciation**—Refers to the value of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on fixed assets and depreciation were collected separately for: (1) structures, additions, and related facilities; (2) machinery and equipment; and (3) the total of both.

Respondents were asked to report the gross book value-acquisition cost (original cost or other basis) at the beginning and at the end of 1982. They were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1982.

**Capital expenditures**—Refers to all costs actually incurred during 1982 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment. Included are payments made under agreements which, in effect, are conditional sales contracts and which, as a result, are capitalized.

Respondents were instructed not to include any expenditures actually made prior to, or after 1982. For example, if they began construction of a building for an establishment's own use before 1982 and did not complete it until after 1982, they were to report only those costs actually incurred during 1982.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.



- **New structures and related facilities**—Includes the total expenditures during 1982 for new buildings and structures, major additions and alterations to buildings and structures, and other facilities for the reporting establishment's use (such as roads, docks, tracks, parking lots, and fences). It excludes expenditures for land.
- **New machinery and equipment**—Includes expenditures for new machinery and new equipment. This item also includes capitalized repairs and improvements to used machinery and equipment.
- **New automobiles and trucks intended primarily for highway use**—Includes expenditures for new automobiles and trucks and capitalized repairs and improvements to used automobiles and trucks.
- **Used structures and related facilities**—Covers expenditures for used structures and related facilities acquired from others.
- **Used machinery and equipment**—Includes expenditures for used machinery and equipment acquired from others, including automobiles and trucks. Capitalized repairs and improvements to such equipment are reported as new machinery and equipment.

**Value of inventories**—Includes all of the materials and supplies that are owned and located within the United States. Excludes materials which are owned by others, but held by the reporting establishment.

Inventories of multiestablishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

**Establishments building structures on their own land for sale (operative builders)** were instructed to include the value of materials on hand at the end of the year but not to include the structures not yet sold or under construction.

Land subdividers and developers were instructed to include the value of materials on hand at the end of the year, but not include land not yet sold or under construction.

**Ownership of construction projects**—This item shows the distribution of construction receipts by ownership of the project—Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken and not to the financing. Government owned projects cover those owned by the Federal, Commonwealth, or local governments including public authorities and special districts.

**Types of construction**—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1982. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. However, complex projects consisting of two or more types of buildings, structures, or other facilities are difficult to classify because sufficient information is seldom available. Therefore, respondents were told to classify complex projects by the major function of the total complex.

In addition, heavy construction contractors and special trade contractors were requested to report the percentage of construction receipts derived from new construction work, including additions and alterations, and from maintenance and repair work for each of these types. General building contractors were requested to report the percentage of construction receipts derived from new construction work, from additions and alterations, and from maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of new construction, additions and alterations, and maintenance and repair.

#### Building construction:

- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (includes townhouses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken party or lot line wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures other than containing two or more housing units.
- **Other residential buildings**—Includes hotels, motels, dormitories, and other nonhousekeeping residential structures.
- **Bank buildings and other financial institutions**—Includes all buildings which are used primarily to house banks or other financial institutions.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, miniwarehouses, and other storage buildings.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Note that heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are NOT included in this category, but are shown under nonbuilding construction.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices.
- **Other commercial buildings such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, complete shopping centers, department stores, drug stores, restaurants, public garages, and auto service stations.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.



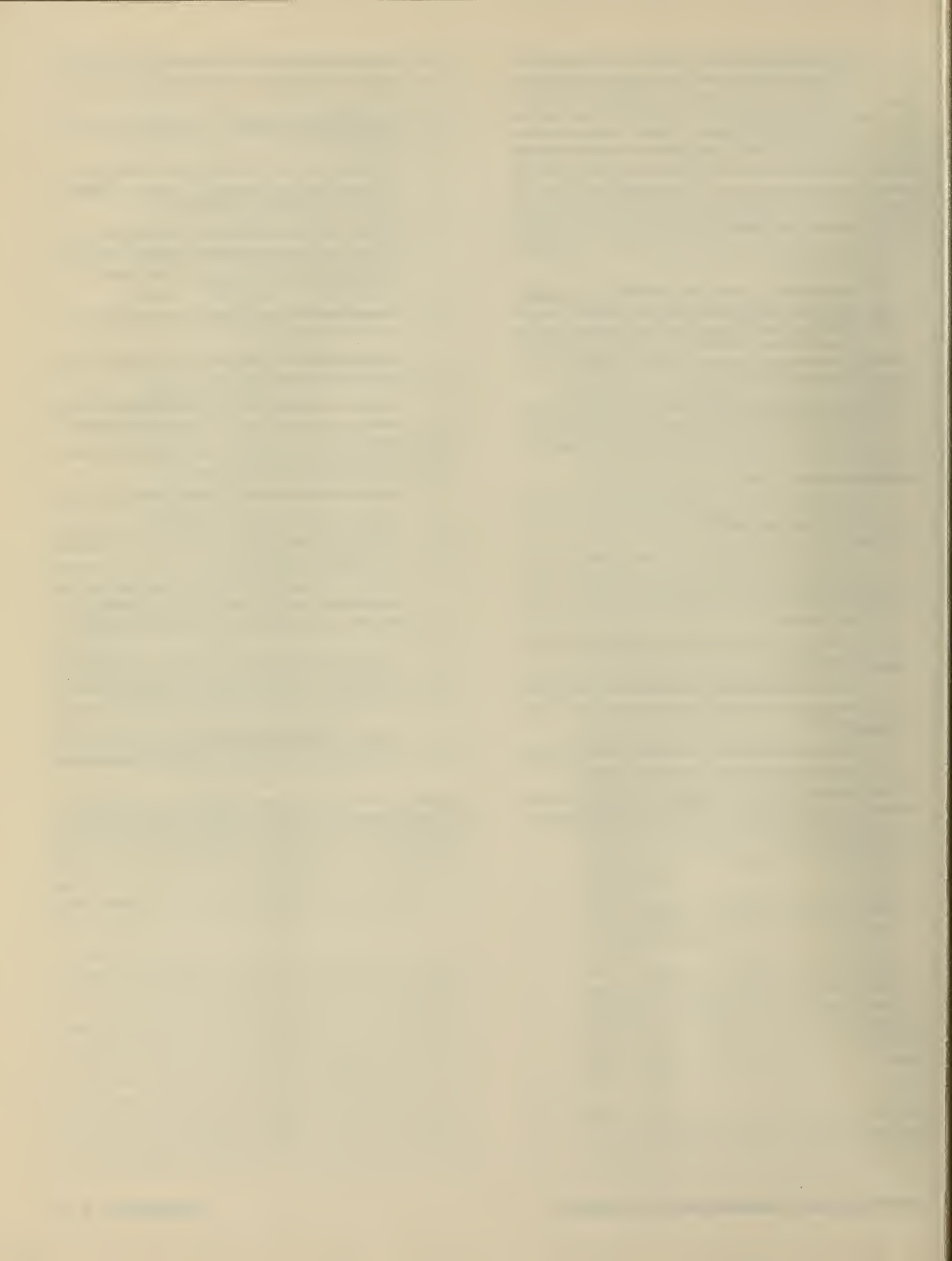
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social, and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes buildings which are not classified elsewhere, such as fire stations, bus and air passenger terminals, hangars, etc.

Nonbuilding construction:

- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Elevated highways**—Includes roads, highways, and causeways built on structural supports.
- **Bridges**—Includes viaducts, trestles, and overpasses.
- **Tunnels**—Includes highway, pedestrian, and railway tunnels, etc.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.

- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, dikes, and levees.
- **Power and communication transmission lines, towers, and related facilities**—Includes telephone and telegraph lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.
- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.

**Location of construction work**—This item includes data for each State in which respondents engaged in construction work and the extent (percent of construction receipts) of that work.



# APPENDIX B. Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
<b>15</b>	<b>BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS</b>	<b>17</b>	<b>CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.</b>
<b>152</b>	<b>General Building Contractors—Residential Buildings</b>	<b>173</b>	<b>Electrical Work Special Trade Contractors</b>
<b>1521</b>	General Contractors—Single-Family Houses	<b>1731</b>	Electrical Work Special Trade Contractors
<b>1522</b>	General Contractors—Residential Buildings, Other Than Single-Family Houses	<b>174</b>	<b>Masonry, Stonework, Tile Setting, and Plastering Special Trade Contractors</b>
<b>153</b>	<b>Operative Builders</b>	<b>1741</b>	Masonry, Stone Setting, and Other Stonework Special Trade Contractors
<b>1531</b>	Operative Builders	<b>1742</b>	Plastering, Drywall, Acoustical and Insulation Work Special Trade Contractors
<b>154</b>	<b>General Building Contractors—Nonresidential Buildings</b>	<b>1743</b>	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
<b>1541</b>	General Contractors—Industrial Buildings and Warehouses	<b>175</b>	<b>Carpentering and Flooring Special Trade Contractors</b>
<b>1542</b>	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	<b>1751</b>	Carpentering Special Trade Contractors
<b>16</b>	<b>CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—GENERAL CONTRACTORS</b>	<b>1752</b>	Floor Laying and Other Floorwork Special Trade Contractors, N.E.C.
<b>161</b>	<b>Highway and Street Construction, Except Elevated Highways</b>	<b>176</b>	<b>Roofing and Sheet Metal Work Special Trade Contractors</b>
<b>1611</b>	Highway and Street Construction Contractors	<b>1761</b>	Roofing and Sheet Metal Work Special Trade Contractors
<b>162</b>	<b>Heavy Construction, Except Highway and Street Construction</b>	<b>177</b>	<b>Concrete Work Special Trade Contractors</b>
<b>1622</b>	Bridge, Tunnel, and Elevated Highway Construction Contractors	<b>1771</b>	Concrete Work Special Trade Contractors
<b>1623</b>	Water, Sewer, Pipe Line, Communication and Power Line Construction Contractors	<b>178</b>	<b>Water Well Drilling Special Trade Contractors</b>
<b>1629</b>	Heavy Construction Contractors, N.E.C.	<b>1781</b>	Water Well Drilling Special Trade Contractors
<b>17</b>	<b>CONSTRUCTION—SPECIAL TRADE CONTRACTORS</b>	<b>179</b>	<b>Miscellaneous Special Trade Contractors</b>
<b>171</b>	<b>Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors</b>	<b>1791</b>	Structural Steel Erection Special Trade Contractors
<b>1711</b>	Plumbing, Heating (Except Electric), and Air Conditioning Special Trade Contractors	<b>1793</b>	Glass and Glazing Work Special Trade Contractors
<b>172</b>	<b>Painting, Paper Hanging, and Decorating Special Trade Contractors</b>	<b>1794</b>	Excavating and Foundation Work Special Trade Contractors
<b>1721</b>	Painting, Paper Hanging, and Decorating Special Trade Contractors	<b>1795</b>	Wrecking and Demolition Work Special Trade Contractors
		<b>1796</b>	Installation or Erection of Building Equipment Special Trade Contractors, N.E.C.
		<b>1799</b>	Special Trade Contractors, N.E.C.
		<b>6552</b>	<b>SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES</b>



ORIGINAL ARTICLES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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# **APPENDIX C.**

## **Geographic Divisions and States**

### **NEW ENGLAND STATES**

Connecticut  
Maine  
Massachusetts  
New Hampshire  
Rhode Island  
Vermont

### **MIDDLE ATLANTIC STATES**

New Jersey  
New York  
Pennsylvania

### **EAST NORTH CENTRAL STATES**

Illinois  
Indiana  
Michigan  
Ohio  
Wisconsin

### **WEST NORTH CENTRAL STATES**

Iowa  
Kansas  
Minnesota  
Missouri  
North Dakota  
South Dakota

### **SOUTH ATLANTIC STATES**

Delaware  
District of Columbia  
Florida  
Georgia  
Maryland

### **SOUTH ATLANTIC STATES—Con.**

North Carolina  
South Carolina  
Virginia  
West Virginia

### **EAST SOUTH CENTRAL STATES**

Alabama  
Kentucky  
Mississippi  
Tennessee

### **WEST SOUTH CENTRAL STATES**

Arkansas  
Louisiana  
Oklahoma  
Texas

### **MOUNTAIN STATES**

Arizona  
Colorado  
Idaho  
Montana  
Nevada  
New Mexico  
Utah  
Wyoming

### **PACIFIC STATES**

Alaska  
California  
Hawaii  
Oregon  
Washington

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# APPENDIX D.

## Standard Consolidated Statistical Areas and Standard Metropolitan Statistical Areas

[Titles and definitions shown for SCSA's and SMSA's are those established by the Office of Management and Budget, as of January 1982]

### Standard Consolidated Statistical Areas

SCSA and definition	SCSA and definition	SCSA and definition
<b>Boston-Lawrence-Lowell, Mass.-N.H.</b> Boston, Mass., SMSA Brockton, Mass., SMSA Lawrence-Haverhill, Mass.-N.H., SMSA Lowell, Mass.-N.H., SMSA	<b>Houston-Galveston, Tex.</b> Galveston-Texas City, Tex., SMSA Houston, Tex., SMSA  <b>Indianapolis-Anderson, Ind.<sup>2</sup></b> Anderson, Ind., SMSA Indianapolis, Ind., SMSA  <b>Los Angeles-Long Beach-Anaheim, Calif.</b> Anaheim-Santa Ana-Garden Grove, Calif., SMSA Los Angeles-Long Beach, Calif., SMSA Oxnard-Simi Valley-Ventura, Calif., SMSA Riverside-San Bernardino-Ontario, Calif., SMSA	<b>New York-Newark-Jersey City, N.Y.-N.J.-Conn.—</b> Con. New York, N.Y.-N.J., SMSA Newark, N.J., SMSA Norwalk, Conn., SMSA Paterson-Clifton-Passaic, N.J., SMSA Stamford, Conn., SMSA
<b>Chicago-Gary-Kenosha, Ill.-Ind.-Wis.<sup>1</sup></b> Chicago, Ill., SMSA Gary-Hammond-East Chicago, Ind., SMSA Kenosha, Wis., SMSA <sup>3</sup>	<b>Miami-Fort Lauderdale, Fla.</b> Fort Lauderdale-Hollywood, Fla., SMSA Miami, Fla., SMSA  <b>Milwaukee-Racine, Wis.</b> Milwaukee, Wis., SMSA Racine, Wis., SMSA	<b>Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.</b> Philadelphia, Pa.-N.J., SMSA Trenton, N.J., SMSA Wilmington, Del.-N.J.-Md., SMSA
<b>Cincinnati-Hamilton, Ohio-Ky.-Ind.</b> Cincinnati, Ohio-Ky.-Ind., SMSA Hamilton-Middletown, Ohio, SMSA	<b>New York-Newark-Jersey City, N.Y.-N.J.-Conn.</b> Jersey City, N.J., SMSA Long Branch-Asbury Park, N.J., SMSA Nassau-Suffolk, N.Y., SMSA New Brunswick-Perth Amboy-Sayreville, N.J., SMSA	<b>Providence-Fall River, R.I.-Mass.<sup>2</sup></b> Fall River, Mass.-R.I., SMSA Providence-Warwick-Pawtucket, R.I.-Mass., SMSA
<b>Cleveland-Akron-Lorain, Ohio</b> Akron, Ohio, SMSA Cleveland, Ohio, SMSA Lorain-Elyria, Ohio, SMSA		<b>San Francisco-Oakland-San Jose, Calif.</b> San Francisco-Oakland, Calif., SMSA San Jose, Calif., SMSA Santa Rosa, Calif., SMSA <sup>3</sup> Vallejo-Fairfield-Napa, Calif., SMSA
<b>Dayton-Springfield, Ohio<sup>2</sup></b> Dayton, Ohio, SMSA Springfield, Ohio, SMSA		<b>Seattle-Tacoma, Wash.</b> Seattle-Everett, Wash., SMSA Tacoma, Wash., SMSA
<b>Detroit-Ann Arbor, Mich.</b> Ann Arbor, Mich., SMSA Detroit, Mich., SMSA		

<sup>1</sup>1977 title was Chicago-Gary, Ill.-Ind.; Kenosha, Wis., SMSA has been added.

<sup>2</sup>New SCSA since 1977 Economic Censuses.

<sup>3</sup>Santa Rosa, Calif., SMSA added since 1977 Economic Censuses.

### Standard Metropolitan Statistical Areas

SMSA and definition	SMSA and definition	SMSA and definition
<b>Abilene, Tex.</b> Callahan County, Tex. Jones County, Tex. Taylor County, Tex.	<b>Altoona, Pa.</b> Blair County, Pa.	<b>Athens, Ga.<sup>1</sup></b> Clarke County, Ga. Jackson County, Ga. Madison County, Ga. Oconee County, Ga.
<b>Akron, Ohio</b> Portage County, Ohio Summit County, Ohio	<b>Amarillo, Tex.</b> Potter County, Tex. Randall County, Tex.	<b>Atlanta, Ga.</b> Butts County, Ga. Cherokee County, Ga. Clayton County, Ga. Cobb County, Ga. De Kalb County, Ga.
<b>Albany, Ga.</b> Dougherty County, Ga. Lee County, Ga.	<b>Anaheim-Santa Ana-Garden Grove, Calif.</b> Orange County, Calif.	<b>Douglas County, Ga.</b> Fayette County, Ga. Forsyth County, Ga. Fulton County, Ga. Gwinnett County, Ga.
<b>Albany-Schenectady-Troy, N.Y.</b> Albany County, N.Y. Montgomery County, N.Y. Rensselaer County, N.Y. Saratoga County, N.Y. Schenectady County, N.Y.	<b>Anchorage, Alaska</b> Anchorage Borough, Alaska	<b>Henry County, Ga.</b> Newton County, Ga. Paulding County, Ga. Rockdale County, Ga. Walton County, Ga.
<b>Albuquerque, N. Mex.</b> Bernalillo County, N. Mex. Sandoval County, N. Mex.	<b>Anderson, Ind.</b> Madison County, Ind.	<b>Atlantic City, N.J.</b> Atlantic County, N.J.
<b>Alexandria, La.</b> Grant Parish, La. Rapides Parish, La.	<b>Anderson, S.C.<sup>1</sup></b> Anderson County, S.C.	<b>Augusta, Ga.-S.C.</b> Columbia County, Ga. Richmond County, Ga. Aiken County, S.C.
<b>Allentown-Bethlehem-Easton, Pa.-N.J.</b> Warren County, N.J. Carbon County, Pa. Lehigh County, Pa. Northampton County, Pa.	<b>Ann Arbor, Mich.</b> Washtenaw County, Mich.	
	<b>Anniston, Ala.</b> Calhoun County, Ala.	
	<b>Appleton-Oshkosh, Wis.</b> Calumet County, Wis. Outagamie County, Wis. Winnebago County, Wis.	
	<b>Asheville, N.C.</b> Buncombe County, N.C. Madison County, N.C.	

See footnotes at end of appendix.

# Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
<p><b>Austin, Tex.</b> Hays County, Tex. Travis County, Tex. Williamson County, Tex.</p> <p><b>Bakersfield, Calif.</b> Kern County, Calif.</p> <p><b>Baltimore, Md.</b> Anne Arundel County, Md. Baltimore County, Md. Carroll County, Md. Harford County, Md. Howard County, Md. Baltimore city, Md.<sup>2</sup></p> <p><b>Bangor, Maine<sup>1</sup></b> Penobscot County, Maine (part) Bangor city, Maine Brewer city, Maine Eddington town, Maine Glenburn town, Maine Hampden town, Maine  Hermon town, Maine Holden town, Maine Kenduskeag town, Maine Old Town city, Maine Orono town, Maine  Orrington town, Maine Penobscot Indian Island Indian Reservation, Maine Veazie town, Maine  Waldo County, Maine (part) Winterport town, Maine</p> <p><b>Baton Rouge, La.</b> Ascension Parish, La. East Baton Rouge Parish, La. Livingston Parish, La. West Baton Rouge Parish, La.</p> <p><b>Battle Creek, Mich.</b> Barry County, Mich. Calhoun County, Mich.</p> <p><b>Bay City, Mich.</b> Bay County, Mich.</p> <p><b>Beaumont-Port Arthur-Orange, Tex.</b> Hardin County, Tex. Jefferson County, Tex. Orange County, Tex.</p> <p><b>Bellingham, Wash.<sup>1</sup></b> Whatcom County, Wash.</p> <p><b>Benton Harbor, Mich.<sup>1</sup></b> Berrien County, Mich.</p> <p><b>Billings, Mont.</b> Yellowstone County, Mont.</p> <p><b>Biola-Gulfport, Miss.</b> Hancock County, Miss. Harrison County, Miss. Stone County, Miss.</p> <p><b>Binghamton, N.Y.-Pa.</b> Broome County, N.Y. Tioga County, N.Y. Susquehanna County, Pa.</p> <p><b>Birmingham, Ala.</b> Jefferson County, Ala. St. Clair County, Ala. Shelby County, Ala. Walker County, Ala.</p> <p><b>Blmarck, N. Dak.<sup>1</sup></b> Burleigh County, N. Dak. Morton County, N. Dak.</p> <p><b>Bloomington, Ind.</b> Monroe County, Ind.</p> <p><b>Bloomington-Normal, Ill.</b> McLean County, Ill.</p> <p><b>Boise City, Idaho</b> Ada County, Idaho</p>	<p><b>Boston, Mass.</b> Essex County, Mass. (part) Beverly city, Mass. Boxford town, Mass. Danvers town, Mass. Hamilton town, Mass. Lynn city, Mass.  Lynnfield town, Mass. Manchester town, Mass. Marblehead town, Mass. Middleton town, Mass. Nahant town, Mass.  Peabody city, Mass. Salem city, Mass. Saugus town, Mass. Swampscott town, Mass. Topsfield town, Mass. Wenham town, Mass.  Middlesex County, Mass. (part) Acton town, Mass. Arlington town, Mass. Ashland town, Mass. Bedford town, Mass. Belmont town, Mass.  Boxborough town, Mass. Burlington town, Mass. Cambridge city, Mass. Carlisle town, Mass. Concord town, Mass.  Everett city, Mass. Framingham town, Mass. Holliston town, Mass. Lexington town, Mass. Lincoln town, Mass.  Malden city, Mass. Medford city, Mass. Melrose city, Mass. Natick town, Mass. Newton city, Mass.  North Reading town, Mass. Reading town, Mass. Sherborn town, Mass. Somerville city, Mass. Stoneham town, Mass.  Sudbury town, Mass. Wakefield town, Mass. Waltham city, Mass. Watertown town, Mass. Wayland town, Mass.  Weston town, Mass. Wilmington town, Mass. Winchester town, Mass. Woburn city, Mass.  Norfolk County, Mass. (part) Bellingham town, Mass. Braintree town, Mass. Brookline town, Mass. Canton town, Mass. Cohasset town, Mass.  Dedham town, Mass. Dover town, Mass. Foxborough town, Mass. Franklin town, Mass. Holbrook town, Mass.  Medfield town, Mass. Medway town, Mass. Millis town, Mass. Milton town, Mass. Needham town, Mass.  Norfolk town, Mass. Norwood town, Mass. Quincy city, Mass. Randolph town, Mass. Sharon town, Mass.</p>	<p><b>Boston, Mass.—Con.</b> Norfolk County, Mass. (part)—Con. Stoughton town, Mass. Walpole town, Mass. Wellesley town, Mass. Westwood town, Mass. Weymouth town, Mass. Wrentham town, Mass.  Plymouth County, Mass. (part) Abington town, Mass. Duxbury town, Mass. Hanover town, Mass. Hanson town, Mass. Hingham town, Mass.  Hull town, Mass. Kingston town, Mass. Marshfield town, Mass. Norwell town, Mass. Pembroke town, Mass. Rockland town, Mass. Scituate town, Mass.  Suffolk County, Mass. Boston city, Mass. Chelsea city, Mass. Revere city, Mass. Winthrop town, Mass.  <b>Bradenton, Fla.</b> Manatee County, Fla.</p> <p><b>Bremerton, Wash.<sup>1</sup></b> Kitsap County, Wash.</p> <p><b>Bridgeport, Conn.</b> Fairfield County, Conn. (part) Bridgeport city, Conn. Easton town, Conn. Fairfield town, Conn. Monroe town, Conn. Shelton city, Conn. Stratford town, Conn. Trumbull town, Conn.  New Haven County, Conn. (part) Derby city, Conn. Milford city, Conn. Milford town balance, Conn.<sup>3</sup> Woodmont borough, Conn.<sup>3</sup></p> <p><b>Bristol, Conn.</b> Hartford County, Conn. (part) Bristol city, Conn. Burlington town, Conn.  Litchfield County, Conn. (part) Plymouth town, Conn.</p> <p><b>Brockton, Mass.</b> Bristol County, Mass. (part) Easton town, Mass.  Norfolk County, Mass. (part) Avon town, Mass.  Plymouth County, Mass. (part) Bridgewater town, Mass. Brockton city, Mass. East Bridgewater town, Mass. Halifax town, Mass. West Bridgewater town, Mass. Whitman town, Mass.</p> <p><b>Brownsville-Harlingen-San Benito, Tex.</b> Cameron County, Tex.</p> <p><b>Bryan-College Station, Tex.</b> Brazos County, Tex.</p> <p><b>Buffalo, N.Y.</b> Erie County, N.Y. Niagara County, N.Y.</p> <p><b>Burlington, N.C.</b> Alamance County, N.C.</p> <p><b>Burlington, Vt.<sup>1</sup></b> Chittenden County, Vt. (part) Burlington city, Vt. Charlotte town, Vt. Colchester town, Vt. Essex Junction village, Vt. Essex town balance, Vt.</p>

See footnotes at end of appendix.



# Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
<b>Burlington, Vt.<sup>1</sup>—Con.</b> Chittenden County, Vt. (part)—Con. Hinesburg town, Vt. Jericho town, Vt. Jericho village, Vt. Milton town, Vt. Milton village, Vt.  Richmond town, Vt. Richmond village, Vt. Shelburne town, Vt. South Burlington city, Vt. St. George town, Vt. Williston town, Vt. Winooski city, Vt.  Franklin County, Vt. (part) Georgia town, Vt.  Grand Isle County, Vt. (part) South Hero town, Vt.	<b>Columbia, Mo.</b> Boone County, Mo.  <b>Columbia, S.C.</b> Lexington County, S.C. Richland County, S.C.  <b>Columbus, Ga.-Ala.</b> Russell County, Ala. Chattahoochee County, Ga. Muscogee County, Ga. <sup>4</sup>  <b>Columbus, Ohio</b> Delaware County, Ohio Fairfield County, Ohio Franklin County, Ohio Madison County, Ohio Pickaway County, Ohio  <b>Corpus Christi, Tex.</b> Nueces County, Tex. San Patricio County, Tex.  <b>Cumberland, Md.-W. Va.<sup>1</sup></b> Allegany County, Md. Mineral County, W. Va.  <b>Dallas-Fort Worth, Tex.</b> Collin County, Tex. Dallas County, Tex. Denton County, Tex. Ellis County, Tex. Hood County, Tex.  Johnson County, Tex. Kaufman County, Tex. Parker County, Tex. Rockwall County, Tex. Tarrant County, Tex. Wise County, Tex.  <b>Danbury, Conn.</b> Fairfield County, Conn. (part) Bethel town, Conn. Brookfield town, Conn. Danbury city, Conn. New Fairfield town, Conn. Newtown town, Conn. Redding town, Conn.  Litchfield County, Conn. (part) New Milford town, Conn.  <b>Danville, Va.<sup>1</sup></b> Pittsylvania County, Va. Danville city, Va. <sup>2</sup>  <b>Davenport-Rock Island-Moline, Iowa-Ill.</b> Henry County, Ill. Rock Island County, Ill. Scott County, Iowa  <b>Dayton, Ohio</b> Greene County, Ohio Miami County, Ohio Montgomery County, Ohio Preble County, Ohio  <b>Daytona Beach, Fla.</b> Volusia County, Fla.  <b>Decatur, Ill.</b> Macon County, Ill.  <b>Denver-Boulder, Colo.</b> Adams County, Colo. Arapahoe County, Colo. Boulder County, Colo. Denver County, Colo. Douglas County, Colo. Gilpin County, Colo. Jefferson County, Colo.  <b>Des Moines, Iowa</b> Polk County, Iowa Warren County, Iowa  <b>Detroit, Mich.</b> Lapeer County, Mich. Livingston County, Mich. Macomb County, Mich. Oakland County, Mich. St. Clair County, Mich. Wayne County, Mich.  <b>Dubuque, Iowa</b> Dubuque County, Iowa	<b>Duluth-Superior, Minn.-Wis.</b> St. Louis County, Minn. Douglas County, Wis.  <b>Eau Claire, Wis.</b> Chippewa County, Wis. Eau Claire County, Wis.  <b>El Paso, Tex.</b> El Paso County, Tex.  <b>Elkhart, Ind.<sup>1</sup></b> Elkhart County, Ind.  <b>Elmira, N.Y.</b> Chemung County, N.Y.  <b>Enid, Okla.<sup>1</sup></b> Garfield County, Okla.  <b>Erie, Pa.</b> Erie County, Pa.  <b>Eugene-Springfield, Oreg.</b> Lane County, Oreg.  <b>Evansville, Ind.-Ky.</b> Gibson County, Ind. Posey County, Ind. Vanderburgh County, Ind. Warrick County, Ind. Henderson County, Ky.  <b>Fall River, Mass.-R.I.</b> Bristol County, Mass. (part) Dighton town, Mass. Fall River city, Mass. Somerset town, Mass. Swansea town, Mass. Westport town, Mass.  Newport County, R.I. (part) Little Compton town, R.I. Portsmouth town, R.I. Tiverton town, R.I.  <b>Fargo-Moorhead, N. Dak.-Minn.</b> Clay County, Minn. Cass County, N. Dak.  <b>Fayetteville, N.C.</b> Cumberland County, N.C.  <b>Fayetteville-Springdale, Ark.</b> Benton County, Ark. Washington County, Ark.  <b>Fitchburg-Leominster, Mass.</b> Middlesex County, Mass. (part) Shirley town, Mass. Townsend town, Mass.  Worcester County, Mass. (part) Fitchburg city, Mass. Leominster city, Mass. Lunenburg town, Mass. Westminster town, Mass.  <b>Flint, Mich.</b> Genesee County, Mich. Shiawassee County, Mich.  <b>Florence, Ala.</b> Colbert County, Ala. Lauderdale County, Ala.  <b>Florence, S.C.<sup>1</sup></b> Florence County, S.C.  <b>Fort Collins, Colo.</b> Larimer County, Colo.  <b>Fort Lauderdale-Hollywood, Fla.</b> Broward County, Fla.  <b>Fort Myers-Cape Coral, Fla.<sup>2</sup></b> Lee County, Fla.  <b>Fort Smith, Ark.-Okla.</b> Crawford County, Ark. Sebastian County, Ark. Le Flore County, Okla. Sequoyah County, Okla.  <b>Fort Walton Beach, Fla.<sup>1</sup></b> Okaloosa County, Fla.

See footnotes at end of appendix.

# Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
<b>Fort Wayne, Ind.</b> Adams County, Ind. Allen County, Ind. De Kalb County, Ind. Wells County, Ind.	<b>Hartford, Conn.—Con.</b> Hartford County, Conn. (part)—Con. Simsbury town, Conn. South Windsor town, Conn. Suffield town, Conn. West Hartford town, Conn. Wethersfield town, Conn. Windsor Locks town, Conn. Windsor town, Conn.	<b>Jersey City, N.J.</b> Hudson County, N.J.
<b>Fresno, Calif.</b> Fresno County, Calif.	Litchfield County, Conn. (part) New Hartford town, Conn.	<b>Johnson City-Kingsport-Bristol, Tenn.-Va.</b> Carter County, Tenn. Hawkins County, Tenn. Sullivan County, Tenn. Unicoi County, Tenn. Washington County, Tenn.
<b>Gadsden, Ala.</b> Etowah County, Ala.	Middlesex County, Conn. (part) Cromwell town, Conn. East Hampton town, Conn. Portland town, Conn.	Scott County, Va. Washington County, Va. Bristol city, Va. <sup>2</sup>
<b>Gainesville, Fla.</b> Alachua County, Fla.	New London County, Conn. (part) Colchester borough, Conn. Colchester town balance, Conn.	<b>Johnstown, Pa.</b> Cambria County, Pa. Somerset County, Pa.
<b>Galveston-Texas City, Tex.</b> Galveston County, Tex.	Tolland County, Conn. (part) Andover town, Conn. Bolton town, Conn. Columbia town, Conn. Coventry town, Conn. Ellington town, Conn.	<b>Joplin, Mo.<sup>1</sup></b> Jasper County, Mo. Newton County, Mo.
<b>Gary-Hammond-East Chicago, Ind.</b> Lake County, Ind. Porter County, Ind.	Hebron town, Conn. Stafford Springs borough, Conn. Stafford town balance, Conn. Tolland town, Conn. Vernon town, Conn. Willington town, Conn.	<b>Kalamazoo-Portage, Mich.</b> Kalamazoo County, Mich. Van Buren County, Mich.
<b>Glens Falls, N.Y.<sup>1</sup></b> Warren County, N.Y. Washington County, N.Y.	<b>Hickory, N.C.<sup>1</sup></b> Alexander County, N.C. Catawba County, N.C.	<b>Kankakee, Ill.</b> Kankakee County, Ill.
<b>Grand Forks, N. Dak.-Minn.</b> Polk County, Minn. Grand Forks County, N. Dak.	<b>Honolulu, Hawaii</b> Honolulu County, Hawaii	<b>Kansas City, Mo.-Kans.</b> Johnson County, Kans. Wyandotte County, Kans. Cass County, Mo. Clay County, Mo. Jackson County, Mo. Platte County, Mo. Ray County, Mo.
<b>Grand Rapids, Mich.</b> Kent County, Mich. Ottawa County, Mich.	<b>Houston, Tex.</b> Brazoria County, Tex. Fort Bend County, Tex. Harris County, Tex. Liberty County, Tex. Montgomery County, Tex. Waller County, Tex.	<b>Kenosha, Wis.</b> Kenosha County, Wis.
<b>Great Falls, Mont.</b> Cascade County, Mont.	<b>Huntington-Ashland, W. Va.-Ky.-Ohio</b> Boyd County, Ky. Greenup County, Ky. Lawrence County, Ohio Cabell County, W. Va. Wayne County, W. Va.	<b>Killeen-Temple, Tex.</b> Bell County, Tex. Coryell County, Tex.
<b>Greeley, Colo.</b> Weld County, Colo.	<b>Huntsville, Ala.</b> Limestone County, Ala. Madison County, Ala. Marshall County, Ala.	<b>Knoxville, Tenn.</b> Anderson County, Tenn. Blount County, Tenn. Knox County, Tenn. Union County, Tenn.
<b>Green Bay, Wis.</b> Brown County, Wis.	<b>Indianapolis, Ind.</b> Boone County, Ind. Hamilton County, Ind. Hancock County, Ind. Hendricks County, Ind. Johnson County, Ind. Marion County, Ind. Morgan County, Ind. Shelby County, Ind.	<b>Kokomo, Ind.</b> Howard County, Ind. Tipton County, Ind.
<b>Greensboro-Winston-Salem-High Point, N.C.</b> Davidson County, N.C. Forsyth County, N.C. Guilford County, N.C. Randolph County, N.C. Stokes County, N.C. Yadkin County, N.C.	<b>Iowa City, Iowa<sup>1</sup></b> Johnson County, Iowa	<b>La Crosse, Wis.</b> La Crosse County, Wis.
<b>Greenville-Spartanburg, S.C.</b> Greenville County, S.C. Pickens County, S.C. Spartanburg County, S.C.	<b>Jackson, Mich.</b> Jackson County, Mich.	<b>Lafayette, La.</b> Lafayette Parish, La.
<b>Hagerstown, Md.<sup>1</sup></b> Washington County, Md.	<b>Jackson, Miss.</b> Hinds County, Miss. Rankin County, Miss.	<b>Lafayette-West Lafayette, Ind.</b> Tippecanoe County, Ind.
<b>Hamilton-Middletown, Ohio</b> Butler County, Ohio	<b>Jacksonville, Fla.</b> Baker County, Fla. Clay County, Fla. Duval County, Fla. Nassau County, Fla. St. Johns County, Fla.	<b>Lake Charles, La.</b> Calcasieu Parish, La.
<b>Harrisburg, Pa.</b> Cumberland County, Pa. Dauphin County, Pa. Perry County, Pa.	<b>Jacksonville, N.C.<sup>1</sup></b> Onslow County, N.C.	<b>Lakeland-Winter Haven, Fla.</b> Polk County, Fla.
<b>Hartford, Conn.</b> Hartford County, Conn. (part) Avon town, Conn. Bloomfield town, Conn. Canton town, Conn. East Granby town, Conn. East Hartford town, Conn. East Windsor town, Conn. Enfield town, Conn. Farmington town, Conn. Glastonbury town, Conn. Granby town, Conn. Hartford city, Conn. Manchester town, Conn. Marlborough town, Conn. Newington town, Conn. Rocky Hill town, Conn.	<b>Janesville-Beloit, Wis.<sup>1</sup></b> Rock County, Wis.	<b>Lancaster, Pa.</b> Lancaster County, Pa.
		<b>Lansing-East Lansing, Mich.</b> Clinton County, Mich. Eaton County, Mich. Ingham County, Mich. Ionia County, Mich.
		<b>Laredo, Tex.</b> Webb County, Tex.
		<b>Las Cruces, N. Mex.<sup>1</sup></b> Dona Ana County, N. Mex.
		<b>Las Vegas, Nev.</b> Clark County, Nev.
		<b>Lawrence, Kans.</b> Douglas County, Kans.

See footnotes at end of appendix.



# Standard Metropolitan Statistical Areas—Con.

MSMA and definition	MSMA and definition	MSMA and definition
<b>Lawrence-Haverhill, Mass.-N.H.</b> Essex County, Mass. (part) Amesbury town, Mass. Andover town, Mass. Georgetown town, Mass. Groveland town, Mass. Haverhill city, Mass.  Lawrence city, Mass. Merrimac town, Mass. Methuen town, Mass. North Andover town, Mass. Salisbury town, Mass. West Newbury town, Mass.  Rockingham County, N.H. (part) Atkinson town, N.H. Hampstead town, N.H. Kingston town, N.H. Newton town, N.H. Plaistow town, N.H. Salem town, N.H. Windham town, N.H.	<b>Macon, Ga.</b> Bibb County, Ga. Houston County, Ga. Jones County, Ga. Twiggs County, Ga.  <b>Madison, Wis.</b> Dane County, Wis.  <b>Manchester, N.H.</b> Hillsborough County, N.H. (part) Bedford town, N.H. Goffstown town, N.H. Manchester city, N.H.  Merrimack County, N.H. (part) Allenstown town, N.H. Hooksett town, N.H. Pembroke town, N.H.  Rockingham County, N.H. (part) Derry town, N.H. Londonderry town, N.H.	<b>Nashua, N.H.</b> Hillsborough County, N.H. (part) Amherst town, N.H. Hudson town, N.H. Merrimack town, N.H. Milford town, N.H. Nashua city, N.H.
<b>Lawton, Okla.</b> Comanche County, Okla.	<b>Mansfield, Ohio</b> Richland County, Ohio	<b>Nashville-Davidson, Tenn.</b> Cheatham County, Tenn. Davidson County, Tenn. Dickson County, Tenn. Robertson County, Tenn. Rutherford County, Tenn.  Sumner County, Tenn. Williamson County, Tenn. Wilson County, Tenn.
<b>Lewiston-Auburn, Maine</b> Androscoggin County, Maine (part) Auburn city, Maine Lewiston city, Maine Lisbon town, Maine	<b>McAllen-Pharr-Edinburg, Tex.</b> Hidalgo County, Tex.	<b>Nassau-Suffolk, N.Y.</b> Nassau County, N.Y. Suffolk County, N.Y.
<b>Lexington-Fayette, Ky.</b> Bourbon County, Ky. Clark County, Ky. Fayette County, Ky. Jessamine County, Ky. Scott County, Ky. Woodford County, Ky.	<b>Medford, Oreg.<sup>1</sup></b> Jackson County, Oreg.	<b>New Bedford, Mass.</b> Bristol County, Mass. (part) Acushnet town, Mass. Dartmouth town, Mass. Fairhaven town, Mass. Freetown town, Mass. New Bedford city, Mass.
<b>Lima, Ohio</b> Allen County, Ohio Auglaize County, Ohio Putnam County, Ohio Van Wert County, Ohio	<b>Melbourne-Titusville-Cocoa, Fla.</b> Brevard County, Fla.	Plymouth County, Mass. (part) Lakeville town, Mass. Marion town, Mass. Mattapoisett town, Mass.
<b>Lincoln, Nebr.</b> Lancaster County, Nebr.	<b>Memphis, Tenn.-Ark.-Miss.</b> Crittenden County, Ark. De Soto County, Miss. Shelby County, Tenn. Tipton County, Tenn.	<b>New Britain, Conn.</b> Hartford County, Conn. (part) Berlin town, Conn. New Britain city, Conn. Plainville town, Conn. Southington town, Conn.
<b>Little Rock-North Little Rock, Ark.</b> Pulaski County, Ark. Saline County, Ark.	<b>Meriden, Conn.</b> New Haven County, Conn. (part) Meriden city, Conn.	<b>New Brunswick-Perth Amboy-Sayreville, N.J.</b> Middlesex County, N.J.
<b>Long Branch-Asbury Park, N.J.</b> Monmouth County, N.J.	<b>Miami, Fla.</b> Dade County, Fla.	<b>New Haven-West Haven, Conn.</b> Middlesex County, Conn. (part) Clinton town, Conn.
<b>Longview-Marshall, Tex.<sup>4</sup></b> Gregg County, Tex. Harrison County, Tex.	<b>Midland, Tex.</b> Midland County, Tex.	New Haven County, Conn. (part) Bethany town, Conn. Branford town, Conn. East Haven town, Conn. Guilford town, Conn. Hamden town, Conn.
<b>Lorain-Elyria, Ohio</b> Lorain County, Ohio	<b>Midwaukee, Wis.</b> Milwaukee County, Wis. Ozaukee County, Wis. Washington County, Wis. Waukesha County, Wis.	Madison town, Conn. New Haven city, Conn. North Branford town, Conn. North Haven town, Conn. Orange town, Conn.
<b>Los Angeles-Long Beach, Calif.</b> Los Angeles County, Calif.	<b>Minneapolis-St. Paul, Minn.-Wis.</b> Anoka County, Minn. Carver County, Minn. Chisago County, Minn. Dakota County, Minn. Hennepin County, Minn.	Wallingford town, Conn. West Haven city, Conn. Woodbridge town, Conn.
<b>Louisville, Ky.-Ind.</b> Clark County, Ind. Floyd County, Ind. Bullitt County, Ky. Jefferson County, Ky. Oldham County, Ky.	Ramsey County, Minn. Scott County, Minn. Washington County, Minn. Wright County, Minn. St. Croix County, Wis.	<b>New London-Norwich, Conn.-R.I.</b> Middlesex County, Conn. (part) Fenwick borough, Conn. <sup>7</sup> Old Saybrook town, Conn.
<b>Lowell, Mass.-N.H.</b> Middlesex County, Mass. (part) Billerica town, Mass. Chelmsford town, Mass. Dracut town, Mass. Lowell city, Mass. Tewksbury town, Mass. Tyngsborough town, Mass. Westford town, Mass.	<b>Mobile, Ala.</b> Baldwin County, Ala. Mobile County, Ala.	New London County, Conn. (part) Bozrah town, Conn. East Lyme town, Conn. Griswold town balance, Conn. Groton city, Conn. Groton town balance, Conn.
Hillsborough County, N.H. (part) Pelham town, N.H.	<b>Modesto, Calif.</b> Stanislaus County, Calif.	Jewett City borough, Conn. Ledyard town, Conn. Lisbon town, Conn. Montville town, Conn. New London city, Conn.
<b>Lubbock, Tex.</b> Lubbock County, Tex.	<b>Monroe, La.</b> Ouachita Parish, La.	
<b>Lynchburg, Va.</b> Amherst County, Va. Appomattox County, Va. Campbell County, Va. Lynchburg city, Va. <sup>2</sup>	<b>Montgomery, Ala.</b> Autauga County, Ala. Elmore County, Ala. Montgomery County, Ala.	
	<b>Muncie, Ind.</b> Delaware County, Ind.	
	<b>Muskegon-Norton Shores-Muskegon Heights, Mich.</b> Muskegon County, Mich. Oceana County, Mich.	

See footnotes at end of appendix.

# Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
<p><b>New London-Norwich, Conn.-R.I.—Con.</b>  New London County, Conn. (part)—Con.  Norwich city, Conn.  Old Lyme town, Conn.  Preston town, Conn.  Sprague town, Conn.  Stonington town, Conn.  Waterford town, Conn.</p> <p>Washington County, R.I. (part)  Hopkinton town, R.I.  Westerly town, R.I.</p>	<p><b>Orlando, Fla.</b>  Orange County, Fla.  Osceola County, Fla.  Seminole County, Fla.</p> <p><b>Owensboro, Ky.</b>  Davies County, Ky.</p> <p><b>Oxnard-Simi Valley-Ventura, Calif.</b>  Ventura County, Calif.</p>	<p><b>Portland, Maine—Con.</b>  Cumberland County, Maine (part)—Con.  Portland city, Maine  Scarborough town, Maine  South Portland city, Maine  Westbrook city, Maine  Windham town, Maine  Yarmouth town, Maine</p> <p>York County, Maine (part)  Old Orchard Beach town, Maine  Saco city, Maine</p>
<p><b>New Orleans, La.</b>  Jefferson Parish, La.  Orleans Parish, La.  St. Bernard Parish, La.  St. Tammany Parish, La.</p>	<p><b>Panama City, Fla.</b>  Bay County, Fla.</p>	<p><b>Portland, Oreg.-Wash.</b>  Clackamas County, Oreg.  Multnomah County, Oreg.  Washington County, Oreg.  Clark County, Wash.</p>
<p><b>New York, N.Y.-N.J.</b>  Bergen County, N.J.  Bronx County, N.Y.  Kings County, N.Y.  New York County, N.Y.  Putnam County, N.Y.</p> <p>Queens County, N.Y.  Richmond County, N.Y.  Rockland County, N.Y.  Westchester County, N.Y.</p>	<p><b>Parkersburg-Marletta, W. Va.-Ohio</b>  Washington County, Ohio  Wirt County, W. Va.  Wood County, W. Va.</p>	<p><b>Portsmouth-Dover-Rochester, N.H.-Maine<sup>1</sup></b>  York County, Maine (part)  Berwick town, Maine  Eliot town, Maine  Kittery town, Maine  South Berwick town, Maine  York town, Maine</p>
<p><b>Newark, N.J.</b>  Essex County, N.J.  Morris County, N.J.  Somerset County, N.J.  Union County, N.J.</p>	<p><b>Pascagoula-Moss Point, Miss.</b>  Jackson County, Miss.</p>	<p>Rockingham County, N.H. (part)  Greenland town, N.H.  Hampton town, N.H.  New Castle town, N.H.  Newfields town, N.H.  Newington town, N.H.</p>
<p><b>Newark, Ohio<sup>1</sup></b>  Licking County, Ohio</p>	<p><b>Paterson-Clifton-Passaic, N.J.</b>  Passaic County, N.J.</p>	<p>Newmarket town, N.H.  North Hampton town, N.H.  Portsmouth city, N.H.  Rye town, N.H.</p>
<p><b>Newburgh-Middletown, N.Y.<sup>1</sup></b>  Orange County, N.Y.</p>	<p><b>Pensacola, Fla.</b>  Escambia County, Fla.  Santa Rosa County, Fla.</p>	<p>Strafford County, N.H. (part)  Barrington town, N.H.  Dover city, N.H.  Durham town, N.H.  Farmington town, N.H.  Lee town, N.H.</p>
<p><b>Newport News-Hampton, Va.</b>  Gloucester County, Va.  James City County, Va.  York County, Va.  Hampton city, Va.<sup>2</sup>  Newport News city, Va.<sup>2</sup>  Poquoson city, Va.<sup>2</sup>  Williamsburg city, Va.<sup>2</sup></p>	<p><b>Peoria, Ill.</b>  Peoria County, Ill.  Tazewell County, Ill.  Woodford County, Ill.</p>	<p>Madbury town, N.H.  Rochester city, N.H.  Rollinsford town, N.H.  Somersworth city, N.H.</p>
<p><b>Norfolk-Virginia Beach-Portsmouth, Va.-N.C.</b>  Currituck County, N.C.  Chesapeake city, Va.<sup>2</sup>  Norfolk city, Va.<sup>2</sup>  Portsmouth city, Va.<sup>2</sup>  Suffolk city, Va.<sup>2</sup>  Virginia Beach city, Va.<sup>2</sup></p>	<p><b>Petersburg-Colonial Heights-Hopewell, Va.</b>  Dinwiddie County, Va.  Prince George County, Va.  Colonial Heights city, Va.<sup>2</sup>  Hopewell city, Va.<sup>2</sup>  Petersburg city, Va.<sup>2</sup></p>	<p><b>Poughkeepsie, N.Y.</b>  Dutchess County, N.Y.</p>
<p><b>Northeast Pennsylvania</b>  Lackawanna County, Pa.  Luzerne County, Pa.  Monroe County, Pa.</p>	<p><b>Philadelphia, Pa.-N.J.</b>  Burlington County, N.J.  Camden County, N.J.  Gloucester County, N.J.  Bucks County, Pa.  Chester County, Pa.</p>	<p><b>Providence-Warwick-Pawtucket, R.I.-Mass.</b>  Bristol County, Mass. (part)  Attleboro city, Mass.  North Attleborough town, Mass.  Norton town, Mass.  Rehoboth town, Mass.  Seekonk town, Mass.</p>
<p><b>Norwalk, Conn.</b>  Fairfield County, Conn. (part)  Norwalk city, Conn.  Weston town, Conn.  Westport town, Conn.  Wilton town, Conn.</p>	<p>Delaware County, Pa.  Montgomery County, Pa.  Philadelphia County, Pa.</p>	<p>Norfolk County, Mass. (part)  Plainville town, Mass.</p>
<p><b>Ocala, Fla.<sup>1</sup></b>  Marion County, Fla.</p>	<p><b>Phoenix, Ariz.</b>  Maricopa County, Ariz.</p>	<p>Worcester County, Mass. (part)  Blackstone town, Mass.  Milville town, Mass.</p>
<p><b>Odessa, Tex.</b>  Ector County, Tex.</p>	<p><b>Pine Bluff, Ark.</b>  Jefferson County, Ark.</p>	<p>Bristol County, R.I.  Barrington town, R.I.  Bristol town, R.I.  Warren town, R.I.</p>
<p><b>Oklahoma City, Okla.</b>  Canadian County, Okla.  Cleveland County, Okla.  McClain County, Okla.  Oklahoma County, Okla.  Pottawatomie County, Okla.</p>	<p><b>Pittsburgh, Pa.</b>  Allegheny County, Pa.  Beaver County, Pa.  Washington County, Pa.  Westmoreland County, Pa.</p>	<p>Kent County, R.I. (part)  Coventry town, R.I.  East Greenwich town, R.I.  Warwick city, R.I.  West Warwick town, R.I.</p>
<p><b>Olympia, Wash.<sup>1</sup></b>  Thurston County, Wash.</p>	<p><b>Pittsfield, Mass.</b>  Berkshire County, Mass. (part)  Adams town, Mass.  Cheshire town, Mass.  Dalton town, Mass.  Lanesborough town, Mass.  Lee town, Mass.</p>	<p>Newport County, R.I. (part)  Jamestown town, R.I.</p>
<p><b>Omaha, Nebr.-Iowa</b>  Pottawattamie County, Iowa  Douglas County, Nebr.  Sarpy County, Nebr.</p>	<p>Lenox town, Mass.  Pittsfield city, Mass.  Stockbridge town, Mass.</p>	<p>Providence County, R.I. (part)  Burrillville town, R.I.  Central Falls city, R.I.  Cranston city, R.I.  Cumberland town, R.I.  East Providence city, R.I.</p>
	<p><b>Portland, Maine</b>  Cumberland County, Maine (part)  Cape Elizabeth town, Maine  Cumberland town, Maine  Falmouth town, Maine  Freeport town, Maine  Gorham town, Maine</p>	<p>Johnston town, R.I.  Lincoln town, R.I.  North Providence town, R.I.  North Smithfield town, R.I.  Pawtucket city, R.I.</p>

See footnotes at end of appendix.



# Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
<b>Providence-Warwick-Pawtucket, R.I.-Mass.—Con.</b> Providence County, R.I. (part)—Con. Providence city, R.I. Scituate town, R.I. Smithfield town, R.I. Woonsocket city, R.I.  Washington County, R.I. (part) Narragansett town, R.I. North Kingstown town, R.I. South Kingstown town, R.I.	<b>St. Louis, Mo.-Ill.</b> Clinton County, Ill. Madison County, Ill. Monroe County, Ill. St. Clair County, Ill. Franklin County, Mo.  Jefferson County, Mo. St. Charles County, Mo. St. Louis County, Mo. St. Louis city, Mo. <sup>2</sup>	<b>Springfield, Ill.</b> Menard County, Ill. Sangamon County, Ill.
<b>Provo-Orem, Utah</b> Utah County, Utah	<b>Salem, Oreg.</b> Marion County, Oreg. Polk County, Oreg.	<b>Springfield, Mo.</b> Christian County, Mo. Greene County, Mo.
<b>Pueblo, Colo.</b> Pueblo County, Colo.	<b>Sallina-Seaside-Monterey, Calif.</b> Monterey County, Calif.	<b>Springfield, Ohio</b> Champaign County, Ohio Clark County, Ohio
<b>Racine, Wis.</b> Racine County, Wis.	<b>Salisbury-Concord, N.C.<sup>1</sup></b> Cabarrus County, N.C. Rowan County, N.C.	<b>Springfield-Chicopee-Holyoke, Mass.-Conn.</b> Tolland County, Conn. (part) Somers town, Conn.
<b>Raleigh-Durham, N.C.</b> Durham County, N.C. Orange County, N.C. Wake County, N.C.	<b>Salt Lake City-Ogden, Utah</b> Davis County, Utah Salt Lake County, Utah Tooele County, Utah Weber County, Utah	Hampden County, Mass. (part) Agawam town, Mass. Chicopee city, Mass. East Longmeadow town, Mass. Hampden town, Mass. Holyoke city, Mass.
<b>Reading, Pa.</b> Berks County, Pa.	<b>San Angelo, Tex.</b> Tom Green County, Tex.	Longmeadow town, Mass. Ludlow town, Mass. Monson town, Mass. Palmer town, Mass. Southwick town, Mass.
<b>Redding, Calif.<sup>1</sup></b> Shasta County, Calif.	<b>San Antonio, Tex.</b> Bexar County, Tex. Comal County, Tex. Guadalupe County, Tex.	Springfield city, Mass. West Springfield town, Mass. Westfield city, Mass. Wilbraham town, Mass.
<b>Reno, Nev.</b> Washoe County, Nev.	<b>San Diego, Calif.</b> San Diego County, Calif.	Hampshire County, Mass. (part) Belchertown town, Mass. Easthampton town, Mass. Granby town, Mass. Hadley town, Mass. Hatfield town, Mass.
<b>Richland-Kennewick-Pasco, Wash.<sup>1</sup></b> Benton County, Wash. Franklin County, Wash.	<b>San Francisco-Oakland, Calif.</b> Alameda County, Calif. Contra Costa County, Calif. Marin County, Calif. San Francisco County, Calif. San Mateo County, Calif.	Northampton city, Mass. South Hadley town, Mass. Southampton town, Mass.
<b>Richmond, Va.</b> Charles City County, Va. Chesterfield County, Va. Goochland County, Va. Hanover County, Va. Henrico County, Va.  New Kent County, Va. Powhatan County, Va. Richmond city, Va. <sup>2</sup>	<b>San Jose, Calif.</b> Santa Clara County, Calif.	Worcester County, Mass. (part) Warren town, Mass.
<b>Riverside-San Bernardino-Ontario, Calif.</b> Riverside County, Calif. San Bernardino County, Calif.	<b>Santa Barbara-Santa Maria-Lompoc, Calif.</b> Santa Barbara County, Calif.	<b>Stamford, Conn.</b> Fairfield County, Conn. (part) Darien town, Conn. Greenwich town, Conn. New Canaan town, Conn. Stamford city, Conn.
<b>Roanoke, Va.</b> Botetourt County, Va. Craig County, Va. Roanoke County, Va. Roanoke city, Va. <sup>2</sup> Salem city, Va. <sup>2</sup>	<b>Santa Cruz, Calif.</b> Santa Cruz County, Calif.	<b>State College, Pa.<sup>1</sup></b> Centre County, Pa.
<b>Rochester, Minn.</b> Olmsted County, Minn.	<b>Santa Rosa, Calif.</b> Sonoma County, Calif.	<b>Steubenville-Weirton, Ohio-W. Va.</b> Jefferson County, Ohio Brooke County, W. Va. Hancock County, W. Va.
<b>Rochester, N.Y.</b> Livingston County, N.Y. Monroe County, N.Y. Ontario County, N.Y. Orleans County, N.Y. Wayne County, N.Y.	<b>Sarasota, Fla.</b> Sarasota County, Fla.	<b>Stockton, Calif.</b> San Joaquin County, Calif.
<b>Rockford, Ill.</b> Boone County, Ill. Winnebago County, Ill.	<b>Savannah, Ga.</b> Bryan County, Ga. Chatham County, Ga. Effingham County, Ga.	<b>Syracuse, N.Y.</b> Madison County, N.Y. Onondaga County, N.Y. Oswego County, N.Y.
<b>Rock Hill, S.C.<sup>1</sup></b> York County, S.C.	<b>Seattle-Everett, Wash.</b> King County, Wash. Snohomish County, Wash.	<b>Tacoma, Wash.</b> Pierce County, Wash.
<b>Sacramento, Calif.</b> Placer County, Calif. Sacramento County, Calif. Yolo County, Calif.	<b>Sharon, Pa.<sup>1</sup></b> Mercer County, Pa.	<b>Tallahassee, Fla.</b> Leon County, Fla. Wakulla County, Fla.
<b>Saginaw, Mich.</b> Saginaw County, Mich.	<b>Sheboygan, Wis.<sup>1</sup></b> Sheboygan County, Wis.	<b>Tampa-St. Petersburg, Fla.</b> Hillsborough County, Fla. Pasco County, Fla. Pinellas County, Fla.
<b>St. Cloud, Minn.</b> Benton County, Minn. Sherburne County, Minn. Stearns County, Minn.	<b>Sherman-Denison, Tex.</b> Grayson County, Tex.	<b>Terre Haute, Ind.</b> Clay County, Ind. Sullivan County, Ind. Vermillion County, Ind. Vigo County, Ind.
<b>St. Joseph, Mo.</b> Andrew County, Mo. Buchanan County, Mo.	<b>Shreveport, La.</b> Bossier Parish, La. Caddo Parish, La. Webster Parish, La.	<b>Texarkana, Tex.-Texarkana, Ark.</b> Little River County, Ark. Miller County, Ark. Bowie County, Tex.
	<b>Sloux City, Iowa-Nebr.</b> Woodbury County, Iowa Dakota County, Nebr.	
	<b>Sloux Falls, S. Dak.</b> Minnehaha County, S. Dak.	
	<b>South Bend, Ind.</b> Marshall County, Ind. St. Joseph County, Ind.	
	<b>Spokane, Wash.</b> Spokane County, Wash.	

See footnotes at end of appendix.

# Standard Metropolitan Statistical Areas—Con.

SMSA and definition	SMSA and definition	SMSA and definition
<b>Toledo, Ohio-Mich.</b> Monroe County, Mich. Fulton County, Ohio Lucas County, Ohio Ottawa County, Ohio Wood County, Ohio	<b>Washington, D.C.-Md.-Va.</b> Washington, D.C. Charles County, Md. Montgomery County, Md. Prince George's County, Md. Arlington County, Va.  Fairfax County, Va. Loudoun County, Va. Prince William County, Va. Alexandria city, Va. <sup>2</sup> Fairfax city, Va. <sup>2</sup>	<b>Wichita Falls, Tex.</b> Clay County, Tex. Wichita County, Tex.  <b>Williamsport, Pa.</b> Lycoming County, Pa.  <b>Wilmington, Del.-N.J.-Md.</b> New Castle County, Del. Cecil County, Md. Salem County, N.J.  <b>Wilmington, N.C.</b> Brunswick County, N.C. New Hanover County, N.C.
<b>Topeka, Kans.</b> Jefferson County, Kans. Osage County, Kans. Shawnee County, Kans.	Falls Church city, Va. <sup>2</sup> Manassas city, Va. <sup>2</sup> Manassas Park city, Va. <sup>2</sup>	<b>Worcester, Mass.</b> Worcester County, Mass. (part) Auburn town, Mass. Berlin town, Mass. Boylston town, Mass. Brookfield town, Mass. Charlton town, Mass.  East Brookfield town, Mass. Grafton town, Mass. Holden town, Mass. Leicester town, Mass. Millbury town, Mass.  North Brookfield town, Mass. Northborough town, Mass. Northbridge town, Mass. Oxford town, Mass. Paxton town, Mass.  Shrewsbury town, Mass. Spencer town, Mass. Sterling town, Mass. Sutton town, Mass. Upton town, Mass.  Uxbridge town, Mass. Webster town, Mass. West Boylston town, Mass. Westborough town, Mass. Worcester city, Mass.
<b>Trenton, N.J.</b> Mercer County, N.J.	<b>Waterbury, Conn.</b> Litchfield County, Conn. (part) Thomaston town, Conn. Watertown town, Conn. Woodbury town, Conn.	
<b>Tucson, Ariz.</b> Pima County, Ariz.	New Haven County, Conn. (part) Beacon Falls town, Conn. Cheshire town, Conn. Middlebury town, Conn. Naugatuck borough, Conn. Prospect town, Conn.	
<b>Tulsa, Okla.</b> Creek County, Okla. Mayes County, Okla. Osage County, Okla. Rogers County, Okla. Tulsa County, Okla. Wagoner County, Okla.	Southbury town, Conn. Waterbury city, Conn. Wolcott town, Conn.	
<b>Tuscaloosa, Ala.</b> Tuscaloosa County, Ala.	<b>Waterloo-Cedar Falls, Iowa</b> Black Hawk County, Iowa	
<b>Tyler, Tex.</b> Smith County, Tex.	<b>Wausau, Wis.<sup>1</sup></b> Marathon County, Wis.	
<b>Utica-Rome, N.Y.</b> Herkimer County, N.Y. Oneida County, N.Y.	<b>West Palm Beach-Boca Raton, Fla.</b> Palm Beach County, Fla.	<b>Yakima, Wash.</b> Yakima County, Wash.
<b>Vallejo-Fairfield-Napa, Calif.</b> Napa County, Calif. Solano County, Calif.	<b>Wheeling, W. Va.-Ohio</b> Belmont County, Ohio Marshall County, W. Va. Ohio County, W. Va.	<b>York, Pa.</b> Adams County, Pa. York County, Pa.
<b>Victoria, Tex.<sup>1</sup></b> Victoria County, Tex.	<b>Wichita, Kans.</b> Butler County, Kans. Sedgwick County, Kans.	<b>Youngstown-Warren, Ohio</b> Mahoning County, Ohio Trumbull County, Ohio
<b>Vineland-Millville-Bridgeton, N.J.</b> Cumberland County, N.J.		<b>Yuba City, Calif.<sup>1</sup></b> Sutter County, Calif. Yuba County, Calif.
<b>Visalia-Tulare-Porterville, Calif.<sup>1</sup></b> Tulare County, Calif.		
<b>Waco, Tex.</b> McLennan County, Tex.		

<sup>1</sup>New SMSA since 1977 Economic Censuses.

<sup>2</sup>Independent of any county and considered a county equivalent.

<sup>3</sup>Milford town balance and Woodmont borough added since 1977 Economic Censuses.

<sup>4</sup>Muscogee County has been reinstated as a county. It replaced the county equivalent record for the independent city of Columbus.

<sup>5</sup>1977 title was Fort Myers, Fla.

<sup>6</sup>1977 title was Longview, Tex.

<sup>7</sup>Fenwick borough added since 1977 Economic Censuses.

<sup>8</sup>1977 title was Richland-Kennewick, Wash.



# REFERENCE MATERIALS • ORDER FORMS • PUBLICATION CORRECTIONS

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## market absorption of apartments

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Find the answers in these quarterly housing reports —

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— Series H-130

Because of the continuing interest in apartment construction throughout the Nation, both private industry and Government have a need for information on the nature of the demand for rental housing. This report is designed to provide data concerning the rate at which nonsubsidized and unfurnished privately financed units in buildings with five or more units are rented (or absorbed). The "Market Absorption of Apartments" quarterly report provides data on the time it takes to rent new apartment units by showing percents absorbed at 3-, 6-, 9-, and 12-months intervals following completion of the units. Three-month absorption rates are also presented for some characteristics of the units, such as asking rent classes and number of bedrooms. Data for cooperative and condominium apartment units, such as the total completed and the 3-month absorption rate, are also provided.

The annual report provides similar data for the geographic regions of the United States and for inside and outside SMSA's of the United States. In addition, data are presented on facilities and services offered in new rental units, such as air conditioning and swimming pools.

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For furnished units, data are presented for the United States by asking rent classes and number of bedrooms. For cooperative and condominium units, data are given for the United States by number of bedrooms, regions, and percent absorbed after 3 months.

These publications are of great value to builders, bankers, market analysts, land planners, and Government officials trying to measure the needs for Federal, State, and local assistance in providing better housing for everyone.

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# PUBLICATION PROGRAM

## 1982 CENSUS OF CONSTRUCTION INDUSTRIES

Publications of the 1982 Census of Construction Industries, containing data on construction establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

### Preliminary Reports

Preliminary data from the 1982 census have been issued in 27 industry reports and 1 summary report. These reports are superseded by more detailed final reports.

### Final Reports

Final detailed statistics are issued in separate paperbound reports.

### Industry series—28 reports (CC82-I-1 to -28)

Industry series—27 reports (CC82-I-1 to -27) contain data for establishments with payroll and 27 industries included in the census. Each report contains data by State and for the United States. Data include: receipts; employment; payments to subcontractors; payments for materials; payments for power and fuels; payments for services; payments for the rental of machinery; value added; capital expenditures on assets. Limited data for 1977, 1972, and 1967 are shown in addition, more detailed data are shown at the bottom of the report. Receipts by type of structure (single-family, multi-family, etc.). Selected data also are provided for establishments by employment size and receipts size.

U.S. Summary—1 report (CC82-I-28). This report contains data for establishments with payroll presented in 27 reports and presents limited data for establishments without payroll.

### Geographic area series—10 reports (CC82-A-1 to -10)

Division reports (CC82-A-1 to -9). The data are presented for the States grouped according to the nine census divisions. The data of the geographic area series are the same as the industry series data, except here they are organized by State rather than by industry. Similar data also are presented for selected SMSA's. Data are provided for establishments classified by their employment size and receipts size. Data for establishments with no payroll as well as comparative 1977, 1972, and 1967 figures, on a limited basis, also are shown.

U.S. Summary by State (CC82-A-10). This report summarizes the data, as presented in the nine individual geographic division reports, for establishments with and without payroll.

### Special series—1 report (CC82-SP-1)

Legal form of organization and type of operation (CC82-SP-1)—This report presents limited data (number of establishments, number of proprietors and working partners, total employment, and total receipts) for construction establishments without payroll, for construction establishments with payroll, and for the aggregate, classified by industry and by legal form of organization. It also contains selected statistics (number of establishments, employment, payrolls, receipts, payments for materials, net construction receipts, and value added) for construction establishments with payroll, classified by industry and by type of organization (single-unit or multiple-unit) and by legal form of organization.

Time

reports subsequently are assembled and reissued in volume.

also are available on microfiche.

### USES REPORTS

These reports cover the trade, service industries, manufactures, and women-owned businesses, women-owned businesses, also are issued as part of the 1982 series of reports covers the censuses of the Virgin Islands of the United States, Guam, and Puerto Rico. All published reports and microfiche of Documents, U.S. Government Printing Office, and order forms describing these reports are available from Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

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